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AS-511
FACILITIES AND ENVIRONMENTAL
MEASUREMENTS PROGRAM

DIRECTOR, INFORMATION SYSTEMS



APPROVAL

AS-511

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM

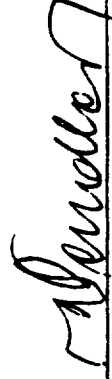
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LIST OF EFFECTIVE PAGES

The total number of pages in this publication is 120 consisting of the following:

<u>Page Number</u>	<u>Issue</u>
Cover	Original
I, II	Original
1-16, 19-24, 31-62	Original
Drawing Index	Original
Drawings (48)	Original
III, IV, V	Rev. #1 17 Mar 72
17-18, 25-30	Rev. #1 17 Mar 72
Pages Added	Rev. #1 17 Mar 72
3A, 63-64	

FACILITIES AND ENVIRONMENTAL MEASUREMENTS
IV. MEASUREMENTS SUMMARY AS-511

<u>Designation</u>	<u>Number of Measurements</u>
2-6 Pressure	126
11-15 Temperature	80
21-23 Vibration	58
25 Acoustics	4
26 Meteorological	14
31 Strain and Force	14
32 Position	13
33 Flow	11
34 RPM	6
35 Liquid Level	3
39 Lightning	36
41 Signals	7
42 Voltage, Current, and Frequency	14
43 Hydrocarbon Content	0
44 Relative Humidity, Moisture Content	4
45 Miscellaneous	0
50 Gas Detection	128
51 Fire Detection	100
55-56 Gas and Fire Detector Confidence Circuit	228
FR Flow Rate	10
S Vehicle Strain	16
<u>Total</u>	<u>872</u>

CONTENTS

INTRODUCTION	1
DOCUMENT FORMAT	2
MEASUREMENT NUMBER CONFIGURATION	3
PCM CHANNEL DESCRIPTION	3A
ABRIEVIATIONS	4
MEASUREMENTS PROGRAM	5
DRAWINGS	Appendix

AS-511

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM

INTRODUCTION

THIS DOCUMENT PRESENTS A LIST OF THE FACILITIES AND ENVIRONMENTAL MEASUREMENTS TO BE MONITORED IN SUPPORT OF THE APOLLO/SATURN VEHICLE AS-511. INCLUDED ARE THE MEASUREMENT IDENTIFICATION NUMBER, DESCRIPTION, TRANSDUCER OPERATING RANGE, RECORDER TYPE AND DRAWINGS ILLUSTRATING MEASUREMENT LOCATION. THE FOLLOWING LAUNCH COMPLEX 39 FACILITIES WILL BE USED ON THIS VEHICLE.

PAD A

LAUNCH COMPLEX 39 - PAD A

LUT 3

LAUNCHER UMBILICAL TOWER NUMBER 3

MEASUREMENTS FOR THE MOBILE SERVICE STRUCTURE, CRAWLER TRANSPORTER AND MOBILE RECHARGER ARE LISTED IN THE LC-39 FACILITIES AND ENVIRONMENTAL SUPPORT EQUIPMENT MEASUREMENTS PROGRAM, GP-842.

TECHNICAL INFORMATION FOR THIS DOCUMENT WAS SUPPLIED BY THE MEASUREMENT SYSTEMS DIVISION, IN-MSD

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THIS DOCUMENT WAS COMPILED AND DISTRIBUTED BY THE DATA SYSTEMS DIVISION, IN-DAT

TECHNICAL CONTACT - BOB CESSAC, IN-DAT-52, 867-4372

HEADING *****	DESCRIPTION *****
MEAS. NO.	IDENTIFICATION NUMBER BASED ON MEASUREMENT TYPE, LOCATION AND SEQUENCE NUMBER (SEE PAGE 2)
DISPLAY REQ. NO.	CALL-UP NUMBER FOR REAL TIME DISPLAY OF DIGITIZED MEASUREMENTS AT THE CIF DATA DISPLAY ROOM AND THE LAUNCH CONTROL CENTER
MEASUREMENT DESCRIPTION	BRIEF SUMMARY OF MEASUREMENT TYPE AND LOCATION
RANGE	TRANSDUCER OPERATING RANGE IN ENGINEERING UNITS
RECORDER	TYPE OF EQUIPMENT ON WHICH MEASUREMENT IS RECORDED <div style="margin-left: 40px;"> CM DAS EVENT MAG LINK MAG TAPE MP O GRAPH SC VDAS CONSOLE METER DIGITAL ACQUISITION SYSTEM EVENT RECORDER LIGHTNING INTENSITY SENSOR MAGNETIC TAPE RECORDER (ANALOG) MULTI-POINT RECORDER OSCILLOGRAPH STRIP CHART RECORDER VIBRATION DATA ACQUISITION SYSTEM </div>
DRAWING NUMBER	REFERS TO APPENDIX DRAWING WHICH ILLUSTRATES THE MEASUREMENT LOCATION
REMARKS	ADDITIONAL COMMENTS DESCRIBING MEASUREMENT

MEASUREMENT NUMBER CONFIGURATION

FORMAT 31 C 001
 . . .
 . . . SEQUENCE NUMBER
 . . .
 . . . LETTER SIGNIFYING LOCATION OF MEASUREMENT
 . . .
 . . . NUMBER SIGNIFYING TYPE OF MEASUREMENT

NUMBER *****	TYPE OF MEASUREMENT *****	LETTER *****	LOCATION *****
2	PRESSURE (0/50 PSI)	A	AGCS OR UTILITY ROOMS
3	PRESSURE (51/350 PSI)	B	LAUNCHER
4	PRESSURE (351/750 PSI)	C	UMBILICAL TOWER
5	PRESSURE (751/1000 PSI)	D	DEFLECTOR AREA
6	PRESSURE (1000 AND UP)	E	HP GAS STORAGE AREA
11	TEMPERATURE (CRYOGENIC)	F	RP-1 AREA
12	TEMPERATURE (0/500 DEG F)	G	LOX STORAGE AREA
13	TEMPERATURE (501/1500 DEG F)	H	LH2 STORAGE AREA
14	TEMPERATURE (1501/3000 DEG F)	J	CONVERTER COMPRESSOR BLDG.
15	TEMPERATURE (CALORIMETRIC)	K	MISCELLANEOUS
21	VIBRATION (0/3000 HZ) MAX	L	LCC
22	VIBRATION (5HZ MIN TO 3000HZ MAX)	M	MSO BLDG.
23	VIBRATION (SHOCK MEASUREMENTS)	N	FLIGHT CREW TRAINING BLDG.
25	ACOUSTICS	P	CIF
26	METEOROLOGY	Q	MOBILE RECHARGER 1 AND 2
31	STRAIN AND FORCE	R	HYPERGOL NO. 2 BLDG.
32	POSITION	S	SERVICE STRUCTURE
33	FLOW	T	TRANSPORTER
34	RPM	U	MISC. WEATHER TOWERS
35	LIQUID LEVEL	V	GH2 STORAGE AREA
39	LIGHTNING	W	500 FT WEATHER TOWER
41	SIGNALS	X	MISC. FAR FIELD LOCATIONS
42	VOLTAGE, CURRENT OR FREQUENCY	Y	CRYO NO. 2 BLDG.
43	HYDROCARBON CONTENT	Z	PYROTECHNIC INSTAL. BLDG.
44	RELATIVE HUMIDITY, MOISTURE CONTENT		
45	MISCELLANEOUS		
50	GAS DETECTION		
51	FIRE DETECTION		
55	GAS AND FIRE CONFIDENCE CIRCUIT DETECTOR		
56	GAS AND FIRE CONFIDENCE CIRCUIT DETECTOR		

DATE 22 DEC 71

ABBREVIATIONS USED ON FACILITIES AND ENVIRONMENTAL MEASUREMENTS

A	ANGSTROM	LONG	LONGITUDINAL
AC	ANGULAR COORDINATES	LOX	LIQUID OXYGEN
AGCS	AUTOMATIC GROUND CONTROL STATION	LP	LOW PRESSURE
BATT	BATTERY	LUT	LAUNCHER UMBILICAL TOWER
BRKT	BRACKET	MI/I	MICRO INCH PER INCH
BTU/SF/S	BTU PER SQUARE FOOT PER SECOND	MP	MULTIPOINT
CAB	CABINET	MR	MOBILE RECHARGER
CENT	CENTER	MSS	MOBILE SERVICE STRUCTURE
CH	CHANNEL	MTD	MOUNTED
CLINE	CENTER LINE	NO	NUMBER
CM	CONSOLE METER	NORM	NORMAL
CM/JA	CONSOLE METER OPERATED BY JA	NR	NUMBER
CM/LVO	CONSOLE METER OPERATED BY LVO	O	GRAPH
COM	COMMON	PAMS	OSCILLOGRAPH
COMP	COMPARTMENT	PAN	PAD ABOUT MEASURING SYSTEM
CONCEN	CONCENTRATION	PARA	PANEL
CONC	CONCENTRATION	PCD	PARALLEL
COR	CORNER	PERP	PNEUMATIC CONTROL DISTRIBUTOR
C-T	CRAWLER-TRANSPORTER	POS	PERPENDICULAR
CYL	CYLINDER	P-P	POSITION
DAS	DIGITAL ACQUISITION SYSTEM	PPM	PEAK TO PEAK
DB	DECIBELS	PRESS	PARTS PER MILLION
DEFL	DEFLECTION	PSIA	PRESSURE
DIAG	DIAGONAL	PSIO	POUNDS PER SQUARE INCH ABSOLUTE
DIFF	DIFFERENTIAL	PSIG	POUNDS PER SQUARE INCH DIFFERENTIAL
DISC	DISCONNECT	PTCR	POUNDS PER SQUARE INCH GAGE
DISCH	DISCHARGE	REC	PAD TERMINAL CONNECTION ROOM
DIST	DISTRIBUTOR	RP-1	REORDER
D/S	DOWN STREAM	S	ROCKET PROPELLANT (LIQUID)
DWG	DRAWING	SA	SIDE
ECS	ENVIRONMENT CONTROL SYSTEM	SC	SERVICE ARM
FAC	FACILITY	SIG	STRIP CHART
FD	FIRE DETECTOR	SM	SIGNAL
FLR	FLOOR	STG	SERVICE MODULE
F/M	FLOW METER	STOR	STAGE
FR	FIRING ROOM	STRGH	STORAGE
GH2	GASEOUS HYDROGEN	SUPP	STRINGER
GN2	GASEOUS NITROGEN	SURF	SUPPORT
GND	GROUND	TEMP	SURFACE
GPM	GALLONS PER MINUTE	TRAN	TEMPERATURE
HE	HELIUM	TSM	TRANSVERSE
H/E	HEAT EXCHANGER	TW	TAIL SERVICE MAST
HORIZ	HORIZONTAL	TWR	THERMAL WIRE
HP	HIGH PRESSURE	UA	TOWER
HZ	HERTZ	UMB	ULTRA VIOLET
INSTR	INSTRUMENT	UV	UMBILICAL
K	KILO THOUSAND	UV	MICRO VOLTS
KV/M	KILO VOLTS PER METER	VAH	ULTRA VIOLET
KW	KILO WATTS	VAP	VEHICLE ASSEMBLY BUILDING
LB/M	POUNDS PER MINUTE	VDAS	VAPORIZER
LCC	LAUNCH CONTROL CENTER	VEH	VIBRATION DATA ACQUISITION SYSTEM
LEV	LEVEL	VERT	VEHICLE
LH2	LIQUID HYDROGEN	VJ	VERTICAL
LN2	LIQUID NITROGEN	XOCR	VACUUM JACKET
			TRANSOUCEER

FACILITIES AND ENVIRONMENTAL DIGITAL ACQUISITION SYSTEM CHANNEL DESCRIPTION

PCM FORMAT

A	P3	E1	-	156	-	05
.
.
.	.	.	.	.	.	bit = 01-10
.	.	.	.	.	.	00 = ALL TEN BITS USED
.
.
.	.	.	.	.	.	DASH(FOR SEPARATION ONLY)
.
.	.	.	.	.	.	WORD = 001-200
.
.	.	.	.	.	.	DASH(FOR SEPARATION ONLY)
.
.
.	.	.	.	.	.	MULTIPLEXER TYPE AND NUMBER
.	.	.	.	.	.	A0 = ANALOG
.	.	.	.	.	.	A1 = ANALOG MULTIPLEXER (A1-A20)
.	.	.	.	.	.	E0 = EVENT
.	.	.	.	.	.	E1 = EVENT SUBMULTIPLEXER (E1-E5)
.
.	.	.	.	.	.	MODULATION TYPE AND LINK
.	.	.	.	.	.	P1 = PCM - LINK 1
.	.	.	.	.	.	P2 = PCM - LINK 2
.	.	.	.	.	.	P3 = PCM - LINK 3
.	.	.	.	.	.	F1 = FSK - LINK 1
.	.	.	.	.	.	F2 = FSK - LINK 2
.	.	.	.	.	.	F3 = FSK - LINK 3
.
.	.	.	.	.	.	COMPLEX = COMPLEX AND AREA FROM WHICH MEASUREMENT IS BEING TRANSMITTED
.	.	.	.	.	.	A - LC39 LUT
.	.	.	.	.	.	D - LC39 PTCR
.	.	.	.	.	.	C - LC39 MSS
.	.	.	.	.	.	U - LC39 LH2
.	.	.	.	.	.	E - LC39 GH2
.	.	.	.	.	.	F - KSC FLD MILL



FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
2A002	13435	PRESS G12 CHILLER CONTROL ECS ROOM	0/20 PSIG	DAS	PC1-2639	BP1-A0-040
2A003	13445	PRESS S1C AFT DUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-048
2A004	13446	PRESS S1C FWD LOWDUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-049
2A005	13447	PRESS S1C FWD UPPERDUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-050
2A006	13450	PRESS S1I AFT ENGINEDUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-051
2A007	13457	PRESS S1I AFT ELECTINDUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-058
2A008	13464	PRESS S1I FWD DUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-063
2A009	13465	PRESS S1VB AFT DUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-064
2A010	13511	PRESS I0 DUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-084
2A011	13512	PRESS SERV MODULE DUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-085
2A012	13531	PRESS COMMAND MODULE DUCT ECS ROOM	0/5 PSIG	DAS	PC1-2639	BP1-A0-100
2A014	13565	PRESS DIFF S-1C AFT COMP ECS ROOM	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-128
2A015	13566	PRESS DIFF S-1C FWD LOWER COMP ECS ROOM	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-129
2A016	13567	PRESS DIFF S-1C FWD UPPER COMP ECS ROOM	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-130
2A017	13570	PRESS DIFF S-1I AFT COMP ECS ROOM	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-131
2A018	13571	PRESS DIFF S-1I AFT ELLEC ECS ROOM	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-132
2A019	13572	PRESS DIFF S-1I FWD COMP AT ECS	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-133
2A020	13573	PRESS DIFF S-1V B AFT COMP AT ECS	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-134
2A021	13574	PRESS DIFF INST UNIT COMP AT ECS	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-135
2A022	13575	PRESS DIFF SERVICE MODULE COMP AT ECS	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-136

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
2A023	13576	PRESS DIFF COMMAND MODULE COMP AT ECS	0/100 PERCENT	DAS + SC	PC1-2639	BP1-A0-137
2A024	13466	PRESS PURGE GN2 RELIEF VALVE 1 ECS NEAR VALVE A6834	0/10 PSIG	UAS + SC	PC1-2639	BP1-A0-065
2A025	13467	PRESS PURGE GN2 RELIEF VALVE 2 ECS NEAR VALVE A6835	0/10 PSIG	UAS + SC	PC1-2639	BP1-A0-066
2A026	13470	PRESS PURGE GN2 SENSING ECS A7049	0/10 PSIG	UAS + SC	PC1-2639	BP1-A0-067
2A027	13577	PRESS INLET TO NORTH COIL ECS	0/10 PSIG	UAS + SC	PC1-2639	BP1-A0-138
2A028	13600	PRESS INLET TO SOUTH COIL ECS	0/10 PSIG	UAS + SC	PC1-2639	BP1-A0-139
2A031	13601	PRESS, GN2 REG. NO.1 DOME	0/25 PSIG	DAS		BP1-A0-140
2A032	13602	PRESS, GN2 REG. NO.2 DOME	0/25 PSIG	UAS		BP1-A0-141
2B002	13461	PRESS DIFF RP-1 LUT FILTER AT VALVE COMPLEX LUT LEVEL A	0/30 PSID	DAS + SC	PC1-2518	BP1-A0-060
2B003	12612	PRESS RP-1 ANNIN VALVE SIGNAL LUT LEVEL A AT VALVE A4062	0/20 PSIG	DAS + SC	PC1-2518	AP1-A0-045
2C025	12570	PRESS GN2 AT S-II STAGE HEAT EXCHANGER OUTLET LUT 130 FT LEVEL (NEAR VALVE A3456)	0/35 PSIA	DAS + SC	PC1-2508	AP1-A0-027
2C026	12571	PRESS GN2 AT S-IVB STAGE HEAT EXCHANGER OUTLET LUT 240 FT LEVEL (NEAR VALVE A3444)	0/35 PSIA	DAS + SC	PC1-2508	AP1-A0-028
2C027	13552	PRESS S-IVB STAGE GN2 VENT. SERV. ARM 7 LUT LEVEL 260 FT	-1/20 PSIG	DAS + SC	PC1-2508	BP1-A0-117
2C028	13553	PRESS S-II STAGE GN2 VENT. SERV. ARM 3 LUT LEVEL 200 FT	-1/20 PSIG	DAS + SC	PC1-2508	BP1-A0-118
2C029	12572	PRESS S-IVB STAGE LINE ANNIN VALVE SIGNAL CONTROL LUT 200 FT LEVEL AT VALVE A-3511	0/20 PSIG	DAS + SC	PC1-2512	AP1-A0-029

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
2C030	12573	PRESS S-II STAGE LH2 ANNIN VALVE SIGNAL CONTROL LUT 120 FT LEVEL AT VALVE A-3310	0/20 PSIG	DAS + SC	PC1-2512	API-A0-030
2C031	13554	PRESS DIFF S-IVB STAGE LH2 FILTER LUT 200 FT LEVEL NEAR VALVE A-3445	0/50 PSID	DAS + SC	PC1-2512	BPI-A0-119
2C032	13555	PRESS DIFF S-II STAGE LH2 FILTER LUT 120 FT LEVEL NEAR VALVE A-3446	0/50 PSID	DAS + SC		BPI-A0-120
2C033	12574	PRESS LOX REPLENISH CONTROL (ANNIN VALVE)	0/20 PSIG	DAS + SC	PC1-2504	API-A0-031
2C034	12575	PRESS LOX REPLENISH CONTROL VALVE A205 LUT 120 FT LEVEL (ANNIN VALVE)	0/20 PSIG	DAS + SC	PC1-2505	API-A0-032
2C035	12576	PRESS LOX REPLENISH CONTROL VALVE A206 LUT 200 FT LEVEL (ANNIN VALVE)	0/20 PSIG	DAS + SC	PC1-2505	API-A0-033
2C036	12577	PRESS DIFF LOX FILTER A223 LUT 30 FT LEVEL	0/15 PSID	DAS + SC	PC1-2504	API-A0-034
2C037	12600	PRESS DIFF LOX FILTER A224 LUT 30 FT LEVEL	0/15 PSID	DAS + SC	PC1-2504	API-A0-035
2C038	12601	PRESS DIFF LOX FILTER A222 LUT LEVEL 120 FT	0/15 PSID	DAS + SC	PC1-2505	API-A0-036
2C039	12602	PRESS DIFF LOX FILTER A221 LUT LEVEL 200 FT	0/15 PSID	DAS + SC	PC1-2505	API-A0-037
2C040	12615	PRESS AIR/GN2 SIC AFT INTERFACE LUT RM 12A	0/2 PSIG	DAS + SC	PC1-2520	API-A0-048
2C041	12616	PRESS AIR/GN2 SIC FWD LOWER INTERFACE SERV. ARM NO 2	0/4 PSIG	DAS + SC	PC1-2529	API-A0-049
2C042	12617	PRESS AIR/GN2 SIC FWD UPPER INTERFACE SERV. ARM NO 2	0/4 PSIG	DAS + SC	PC1-2529	API-A0-050
2C043	12620	PRESS AIR/GN2 S-II AFT ENGINE INTERFACE SERV. ARM NO 4	0/2 PSIG	DAS + SC	PC1-2531	API-A0-051
2C044	12621	PRESS AIR/GN2 S-II AFT ELECTRICAL INTERFACE SLRV. ARM NO 4	0/4 PSIG	DAS + SC	PC1-2531	API-A0-052

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

NEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
20045	12622	PRESS AIR/GN2 S-II FWD INTLRFACE* SERV. ARM NO 5	0/4 PSIG	DAS + SC	PCI-2532	AP1-A0-053
20046	12623	PRESS AIR/GN2 S-IVB AFT INTERFACE SERV. ARM NO 6	0/2 PSIG	DAS + SC	PCI-2533	AP1-A0-054
20047	12624	PRESS AIR/GN2 IU INTLRFACE SERV. ARM NO 7	0/4 PSIG	DAS + SC	PCI-2534	AP1-A0-055
20048	12625	PRESS AIR/GN2 SERVICE MODULE INTERFACE SERV. ARM NO. 8	0/4 PSIG	DAS + SC	PCI-2535	AP1-A0-056
20049	12626	PRESS AIR/GN2 COMMAND MODULE INTERFACE SERV. ARM NO. 9	0/2 PSIG	DAS + SC	PCI-2536	AP1-A0-057
20113	12643	PRESS S-IVB LH2 VEH VENT CHECK VALVE A3442 INLET LUT 240 FT LEV	-1/5 PSIG	DAS + SC		AP1-A0-070
20114	12561	PRESS S-IVB LH2 VEH VENT CHECK VALVE A3442 OUTLET AT VALVE A29122	-1/5 PSIG	DAS + SC		AP1-A0-020
20115	12644	PRESS S-II LH2 VEH VENT CHECK VALVE A3443 INLET LUT 180 FT LEV	-1/5 PSIG	DAS + SC		AP1-A0-071
20116	12556	PRESS S-II LH2 VEH VENT CHECK VALVE A3443 OUTLET AT VALVE A29121	-1/5 PSIG	DAS + SC		AP1-A0-017
20117	12557	PRESS S-IVB STAGE GN2 VENT SERV ARM 7 LUT 260 FT	-1/5 PSIG	DAS + SC	PCI-2408	AP1-A0-018
20118	12560	PRESS S-II STAGE GN2 VENT SERV ARM 5 LUT 200 FT	-1/5 PSIG	DAS + SC	PCI-2408	AP1-A0-019
20120		PRESS DIFF ACROSS DOOR OF BASE COMM TERM DISTR 3 60 FT LEVEL	+5 PSID	VDAS		
20121		PRESS DIFF ACROSS DOOR OF BASE COMM TERM DISTR 4 60 FT LEVEL	+3 PSID	VDAS		
20122		PRESS DIFF ACROSS DOOR OF BASE COMM TERM DISTR 5 120 FT LEVEL	+1 PSID	VDAS		
20128	12660	PRESS, DIFF. LOX MAIN FILL LINE 126.5 FT LEVEL OF LUT	-1/+5 PSID	DAS	PCI-2505	AP1-A0-083

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
2F001	13462	PRESS RP-1 TRANSFER PUMP 4003 SUCTION NEAR VALVE A4054 RP1 STORAGE FACILITY	0/60 PSIA	UAS + SC	PC1-2315	BP1-A0-061
2F002	13473	PRESS, RP-1 STORAGE TANK ULLAGE	0/5 PSIG	DAS + SC	PC1-2316	BP1-A0-070
2G001	13451	PRESS LOX VAP CONT FLOW VALVE A12 LOX FACILITY ANNUN VALVE	0/20 PSIG	DAS + SC	PC1-2302	BP1-A0-052
2G002	13452	PRESS LOX REPLENISH PUMP FLOW CONTROL BYPASS VALVE A197 LOX FACILITY	0/20 PSIG	UAS + SC	PC1-2302	BP1-A0-053
2G004	13453	PRESS LOX REPLENISH PUMP SIGNAL LOX FACILITY BYPASS VALVE A136	0/20 PSIG	DAS + SC	PC1-2302	BP1-A0-054
2G005	13455	PRESS, A120 LOX PUMP SUCTION	0/50 PSIG	DAS + SC	PC1-2302	BP1-A0-056
2G006		PRESS, A127 LOX PUMP SUCTION	0/50 PSIG	DAS + SC	PC1-2302	
2G007	13456	PRESS, A100 LOX PUMP SUCTION	0/50 PSIG	UAS + SC	PC1-2302	BP1-A0-057
2G008		PRESS, A107 LOX PUMP SUCTION	0/50 PSIG	DAS + SC	PC1-2302	
2G009	13460	PRESS LOX STORAGE TANK ULLAGE LOX FACILITY	-5/15 PSIG	DAS + SC	PC1-2302	BP1-A0-059
2H001	13436	PRESS LH2 VAPORIZER CONTROL VALVE SIGNAL TEE INTO VALVE A3304 LH2 FACILITY	0/20 PSIG	DAS + SC	PC1-2308	BP1-A0-041
2K001	13437	PRESS LH2 VEHICLE VENT AT BURN POND	-1/3 PSIG	DAS + SC	PC1-2310	BP1-A0-042
2K002	13440	PRESS WATER PUMP AT BURN POND	+2 PSID	DAS + SC	PC1-2308	BP1-A0-043
2K003	13501	PRESS DIFF RP-1 TRANSFER LINE FILTER AT RP-1 PEDESTAL FILTER A4098	0/30 PSID	DAS + SC	PC1-2317	BP1-A0-076

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDFR*	*DRAWING NO.*	*REMARKS*
2K004	13475*	PRESS LH2 VEHICLE VENT LINE INTERMEDIATE BASE OF LUT	-1/3 PSIG	DAS + SC	PC1-2311*	BP1-A0-072
3A001	13603*	PRESS PURGE GN2 SUPPLY ECS XDCR A0846	0/200 PSIG	DAS + MP*		BP1-A0-142
3B001	12613*	PRESS RP-1 AT MAST LUT A LEVEL BETWEEN VALVE A9690 AND FILL MAST	0/200 PSIG	DAS + SC	PC1-2518*	AP1-A0-046
3B002	12614*	PRESS RP-1 VENT TRAP LUT A LEVEL AT VALVE COMPLEX	0/200 PSIG	DAS + SC	PC1-2518*	AP1-A0-047
3C005	12552*	PRESS LH2 AT S-II STAGE VALVE COMPLEX INLET LUT 120 FT LEVEL	0/120 PSIG	DAS + SC	PC1-2512*	AP1-A0-013
3C006	13556*	PRESS LH2 AT S-IVB VALVE COMPLEX DISCHARGE 200 FT LEVEL LUT NEAR VALVE A3445	0/120 PSIG	DAS + SC	PC1-2412*	BP1-A0-121
3C007	13557*	PRESS LH2 AT S-II VALVE COMPLEX VALVE A3446	0/120 PSIG	DAS + SC	PC1-2412*	BP1-A0-122
3C008	12553*	PRESS LH2 AT S-IVB UMBILICAL SERV. ARM 6 LUT LEVEL 220 FT	0/120 PSIA	DAS + SC	PC1-2533*	AP1-A0-014
3C009	12554*	PRESS LH2 FILL AT S-II UMBILICAL SERV. ARM 4 LUT LEVEL 160 FT	0/120 PSIA	DAS + SC	PC1-2531*	AP1-A0-015
3C010	12645*	PRESS S-IVB LH2 FILTER VENT LINE 200 FT LEVEL ON LUT NEAR VALVE A3431	0/60 PSIA	DAS + SC	PC1-2512*	AP1-A0-072
3C011	12646*	PRESS S-II STAGE LH2 FILTER VENT LINE 120 FT LEVEL NEAR VALVE A3452	0/60 PSIA	DAS + SC	PC1-2512*	AP1-A0-073
3C012	13516*	PRESS SIVB LOX LUT 200 FT LEV LUT SERVICE ARM 6	0/150 PSIG	DAS + SC	PC1-2533*	BP1-A0-089

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*REORDER*	*DRAWING NO.*	*REMARKS*
3C013	13517*	PRESS S-II LOX NO. 1 INLET LEVEL 120 FT LUT SERVICE ARM NO 5 NEAR VALVE A238	0/150 PSIG	UAS + SC	PC1-2532*	BP1-A0-090
3C014	13520*	PRESS S-IC LOX NO. 2 INLET LEVEL COMPLEX OUTLET A235	0/150 PSIG	UAS + SC	PC1-2529*	BP1-A0-091
3C015	12656*	PRESS S-IC LOX VALVE COMPLEX OUTLET LEVEL 30 FT LUT DOWN STREAM OF FILTER A223	0/200 PSIG	UAS + SC	PC1-2504*	AP1-A0-081
3C016	12657*	PRESS S-IC LOX VALVE COMPLEX OUTLET LEVEL 30 FT LUT DOWN STREAM OF FILTER A224	0/200 PSIG	UAS + SC	PC1-2504*	AP1-A0-082
3C017	12605*	PRESS S-II LOX VALVE COMPLEX OUTLET LEVEL 120 FT LUT DOWN STREAM OF FILTER A222	0/200 PSIG	UAS + SC	PC1-2505*	AP1-A0-040
3C018	12606*	PRESS S-IV3 LOX VALVE COMPLEX OUTLET LEVEL 200 FT LUT DOWN STREAM OF FILTER A221	0/150 PSIG	UAS + SC	PC1-2505*	AP1-A0-041
3C020	12555*	PRESS LH2 INLET TO S-IV8 STAGE VALVE COMPLEX LUT 200 FT LEVEL	0/120 PSIG	UAS + SC	PC1-2512*	AP1-A0-016
3C024	13524*	PRESS S-IC LOWER LOX LINE INLET SERVICE ARM NO. 1	0/150 PSIG	UAS + SC	PC1-2504*	BP1-A0-095
3C036	12661*	PRESS STATIC LOX MAIN FILL LINE 126.5 FT. LEVEL	0/100 PSIG	UAS	PC1-2505*	AP1-A0-084
3F001	13422*	PRESS RP-1 TRANSFER PUMP 4003 DISCHARGE NEAR VALVE A4055 RP-1 STORAGE FACILITY	0/300 PSIG	UAS + SC	PC1-2315*	BP1-A0-029
3F002	13423*	PRESS RP-1 TRANSFER LINE DOWN- STREAM OF TEC CONN FOR DISC RP-1 STORAGE FACILITY A4071	0/300 PSIG	UAS + SC	PC1-2315*	BP1-A0-030
36001	13532*	PRESS 1000 GPM LOX PUMP DISCH. IN COMMON LINE AT LOX FACILITY	0/400 PSIG	UAS + SC	PC1-2302*	BP1-A0-101

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
3H001	13560*	PRESS LH2 STORAGE TANK ULLAGE LH2 STORAGE FAC NEAR VALVE A3407	0/120 PSIG	DAS + SC	PCI-2309*	BP1-A0-123
3H002	13441*	PRESS LH2 STORAGE TANK VENT AT LH2 FACILITY AT POND SIDE OF VALVE A3440	0/100 PSIA	DAS + SC	PCI-2309*	BP1-A0-044
3H003	13442*	PRESS LH2 FACILITY TRANSFER LINE, D/S OF VALVE A3481	0/120 PSIA	DAS + SC	PCI-2309*	BP1-A0-045
3H004	13525*	PRESS LH2 STORAGE TANK NEAR INSTR CONSOLE LH2 FACILITY	0/75 PSIG	DAS + SC	PCI-2309*	BP1-A0-096
3K001	13421*	PRESS LH2 FACILITY HEAT EXCHAN. VENT NEAR BURN POND	0/60 PSIA	DAS + SC	PCI-2310*	BP1-A0-028
3K002	13476*	PRESS FACILITY HEAT EXCHANGER VENT LINE AT EQUILIZER TUBE AT BURN POND	0/60 PSIA	DAS + SC	PCI-2310*	BP1-A0-073
3K003	13477*	PRESS LH2 VEHICLE VENT LINE AT EQUIL. TUBE AT BURN POND	-1/3 PSIG	DAS + SC	PCI-2310*	BP1-A0-074
3K006	13500*	PRESS LH2 H/E VENT LINE INTERMEDIATE AT LUT DISCONNECT	0/60 PSIA	DAS + SC	PCI-2311*	BP1-A0-075
3K007	13454*	PRESS 6 INCH LUX V-VJ. LINE AT ML DISCONNECT	0/350 PSIG	DAS + SC		BP1-A0-055
4C004	12611*	PRESS, LOX MAIN LINE TOWER VENT SIDE 3-4 140 FT LEVEL	0/500 PSIG	DAS + SC		AP1-A0-044
46001	13533*	PRESS 10000 GPM LUX PUMP DISCHARGE COMMON LINE ABOVE F/M 68. LUX FACILITY	0/400 PSIG	DAS + SC	PCI-2303*	BP1-A0-102

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
4K006	13526	PRESS 14 INCH LOX CROSS COUNTRY LINE AT LUT DISCONNECT	0/400 PSIG	DAS + SC	PC1-2301*	BP1-A0-097
5C004		PRESS, HYDRAULIC RIGHT SIDE EXTEND PRIMARY DAMPER ARM	0/1000 PSIG	SC	PC1-2549*	FOR TRANSFER TO PAD ONLY
5C005		PRESS HYDRAULIC LEFT SIDE EXTEND* PRIMARY DAMPER ARM	0/1000 PSIG	SC	PC1-2549*	FOR TRANSFER TO PAD ONLY
5C006		PRESS HYDRAULIC RIGHT SIDE RETRACT PRIMARY DAMPER ARM	0/1000 PSIG	SC	PC1-2549*	FOR TRANSFER TO PAD ONLY
5C007		PRESS HYDRAULIC LEFT SIDE RETRACT PRIMARY DAMPER ARM	0/1000 PSIG	SC	PC1-2549*	FOR TRANSFER TO PAD ONLY
6B007		PRESS HYDRAULIC DOWNSTREAM OF RETRACT CYLINDER T.S.M. 3-2	0/6000 PSIA	VDAS		VAB HIGH BAY TESTS ONLY
6B008		PRESS HYDRAULIC DOWNSTREAM OF RETRACT CYLINDER T.S.M. 1-2	0/6000 PSIA	VDAS		VAB HIGH BAY TESTS ONLY
6B009		PRESS HYDRAULIC DOWNSTREAM OF RETRACT CYLINDER T.S.M. 3-4	0/6000 PSIA	VDAS		VAB HIGH BAY TESTS ONLY
6K001		PRESS, HYDRAULIC SUPPLY LINE AT INTERFACE N.E. EXTENSIBLE COL	0/4000 PSIG	SC	PC1-2352*	
6K002		PRESS, HYDRAULIC SUPPLY LINE AT INTERFACE N.W. EXTENSIBLE COL	0/4000 PSIG	SC	PC1-2352*	
6K003		PRESS, HYDRAULIC SUPPLY LINE AT INTERFACE S.W. EXTENSIBLE COL	0/4000 PSIG	SC	PC1-2352*	
6K004		PRESS, HYDRAULIC SUPPLY LINE AT INTERFACE S.E. EXTENSIBLE COL	0/4000 PSIG	SC	PC1-2352*	

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
11C001	12541	TEMP GH2 AT S-IVB STAGE HEAT EXCHANGER OUTLET 240 FT LEVEL NEAR VALVE A3444	-425/-350 DEG F	DAS + SC	PC1-2508	AP1-A0-004 6 INCH PROBE
11C002	12542	TEMP GH2 AT S-II STAGE HEAT EXCHANGER OUTLET 180 FT LEVEL NEAR VALVE A3456	-425/-350 DEG F	DAS + SC	PC1-2508	AP1-A0-005 6 INCH PROBE
11C003	12543	TEMP LH2 S-IVB STAGE TRANSFER LINE OUTLET 200 FT LEVEL NEAR SENSOR A3323	-426/-410 DEG F	DAS + SC	PC1-2512	AP1-A0-006 20 INCH PROBE
11C004	12544	TEMP LH2 S-II STAGE TRANSFER LINE OUTLET 120 FT LEVEL	-426/-410 DEG F	DAS + SC	PC1-2512	AP1-A0-007 20 INCH PROBE
11C005	12545	TEMP LH2 S-IVB STAGE VENT LINE LUT NEAR VEHICLE	-426/0 DEG F	DAS + SC	PC1-2513	AP1-A0-008 20 INCH PROBE
11C006	12546	TEMP LH2 S-II STAGE VENT LINE LUT NEAR VEHICLE	-426/0 DEG F	DAS + SC	PC1-2513	AP1-A0-009 20 INCH PROBE
11C007	12540	TEMP LH2 S-II STAGE INLET LEVEL 160 FT LUT ON FULL MAST NEAR VALVE A1653	-426/100 DEG F	DAS + SC	PC1-2508	AP1-A0-003 3 INCH PROBE
11C014	12536	TEMP GAS IN S-II LUX TANK PREPRESSURIZATION LINE LUT 160 FT LEVEL S. A. NO. 4	-400/-200 DEG F	DAS + SC	PC1-2531	AP1-A0-001 2 INCH PROBE
11C017	12537	TEMP LOX MAIN FILL LINE 126.5 FT. LEVEL LUT	-300/-250 DEG F	DAS	PC1-2505	AP1-A0-002
11H001	13425	TEMP GH2 AT VAPORIZER OUTLET LH2 FACILITY	-400/-100 DEG F	DAS + SC	PC1-2309	BP1-A0-032 8 IN PROBE
11H002	13426	TEMP LH2 TRANSFER LINE NEAR SENSOR A3320 LH2 FACILITY	-426/-410 DEG F	DAS + SC	PC1-2309	BP1-A0-033 20 IN PROBE
11K001	13424	TEMP INLET TO BURN POND LH2 BURN POND	-400/100 DEG F	DAS + SC	PC1-2308	BP1-A0-031 18 INCH DIA LINE 10 INCH PROBE
11K011	13521	TEMP LH2 HEAT EXCHANGER VENT LINE BASE OF LUT BASE OF LH2 TOWER	-425/-300 DEG F	DAS + SC	PC1-2308	BP1-A0-092

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
11K012	13522	TEMP LH2 VEHICLE VENT LINE BASE OF LUT BASE OF LH2 TOWER	-425/-300 DEG F	DAS + SC	FC1-2308	BP1-A0-093
12A001	13504	TEMP AIR NORTH PRECOOL COIL AT ECS	30/100 DEG F	DAS + MP	PC1-2639	BP1-A0-143
12A002	13505	TEMP AIR NORTH COLD COIL AT ECS	25/55 DEG F	DAS + MP	PC1-2639	BP1-A0-144
12A003	13506	TEMP AIR SOUTH PRECOOL COIL AT ECS	30/100 DEG F	DAS + MP	PC1-2639	BP1-A0-145
12A004	13507	TEMP AIR SOUTH COLD COIL AT ECS	25/55 DEG F	DAS + MP	PC1-2639	BP1-A0-146
12A005	13510	TEMP COOLING SYSTEM TANK AT ECS	20/40 DEG F	DAS + MP	PC1-2639	BP1-A0-147
12A006	13511	TEMP AIR COMMAND MODULE COLD COIL AT ECS	25/55 DEG F	DAS + MP	PC1-2639	BP1-A0-148
12A007	13512	TEMP AIR TO SIC AFT COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-149
12A008	13513	TEMP AIR TO SIC FWD LOWER COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-150
12A009	13514	TEMP AIR TO SIC FWD UPPER COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-151
12A010	13515	TEMP AIR TO SII AFT LLECT COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-152
12A011	13516	TEMP AIR TO SII FWD COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-153
12A012	13517	TEMP AIR TO SIVB AFT COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-154
12A013	13520	TEMP AIR TO IU COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-155
12A014	13521	TEMP AIR TO SERVICE MODULE COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-156
12A015	13522	TEMP AIR TO COMMAND MODULE COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-157
12A016	13523	TEMP AIR TO SII AFT COMP IN DUCT AFTER HEATER AT ECS	30/300 DEG F	DAS + MP	PC1-2639	BP1-A0-158

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
12A017		TEMP AMBIENT DRY BULB OUTSIDE ECS	N/A	HYGRO- THERMO GRAPH		
12A019	13624	TEMP COMMAND MODULE PRECOOL COIL AT ECS	30/100 DEG F	DAS + MP	PCI-2639	BP1-A0-159
12A020	13625	TEMP COOLING TWR WATER (COLD LINE) AT ECS	30/100 DEG F	DAS + MP	PCI-2639	BP1-A0-160
12A026	13471	TEMPERATURE SIC AFT DUCT IN ECS ROOM REDUNDANT TO 12A007	32/416 DEG F	DAS + SC	PCI-2639	BP1-A0-068
12B001	12547	TEMP RP-1 AT VEHICLE SKIN ON MAST NEAR FILL AND DRAIN VALVE B133	32/150 DEG F	DAS + SC		AP1-A0-010 3 IN PROBE
12B016	12551	TEMP PLENUM III FLOOR UNDER CABINET 2 RCA 110 COMPUTER IN LUT RM 15A	50/90 DEG F	DAS + SC		AP1-A0-012 3 IN. PROBE
12B016		TEMP AMBIENT AT RCA 110 COMPUTER LUT ROOM 15A	N/A	HYGRO- THERMO GRAPH		
12B040	12550	TEMP AIR ABOVE CABINET NO. 5 RCA 110 COMPUTER LUT RM 15A	80/120 DEG F	DAS + SC		AP1-A0-011
12C007	12027	TEMP AIR/G42 SIC FWD UPPER INTERFACE SERV. ARM NO. 2	30/140 DEG F	DAS + SC	PCI-2429	AP1-A0-058 4 INCH PROBE
12C006	12030	TEMP AIR/G42 S-11 AFT ENGINE INTERFACE SERV. ARM NO. 4	0/300 DEG F	DAS + SC	PCI-2431	AP1-A0-059 6 INCH PROBE
12C009	12031	TEMP AIR/G42 S-1V3 AFT INTERFACE SERV. ARM 6	0/300 DEG F	DAS + SC	PCI-2533	AP1-A0-060 6 INCH PROBE
12C010	12032	TEMP AIR/G42 IU INTERFACE SERV. ARM 7	30/140 DEG F	DAS + SC	PCI-2534	AP1-A0-061 6 INCH PROBE
12C011	12033	TEMP AIR/G42 S-1C AFT INTERFACE LUT ROOM 12A	0/300 DEG F	DAS + SC	PCI-2520	AP1-A0-062 8 INCH PROBE

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
12C012	12634	TEMP AIR/GN2 S-IC FWD LOWER INTERFACE SERV. ARM NO. 2	30/140 DEG F	DAS + SC	PC1-2529	API-A0-063 4 INCH PROBE
12C013	12635	TEMP S-II AFT ELECTRICAL INTERFACE SERV. ARM NO. 4	30/140 DEG F	DAS + SC	PC1-2531	API-A0-064 4 INCH PROBE
12C014	12636	TEMP AIR/GN2 SERV MODULE INTERFACE SERV. ARM NO. 8	30/140 DEG F	DAS + SC	PC1-2535	API-A0-065 6 INCH PROBE
12C015	12637	TEMP AIR/GN2 COMMAND MODULE INTERFACE SERV. ARM NO. 9	30/140 DEG F	DAS + SC	PC1-2536	API-A0-066 6 INCH PROBE
12C017	12640	TEMP AIR/GN2 S-II FWD INTERFACE SERV ARM 5	30/140 DEG F	DAS + SC	PC1-2532	API-A0-067 4 INCH PROBE
126001	13367	TEMP, A106 CLUTCH OUTPUT BEARING	32/240 DEG F	DAS + SC	PC1-2306	BP1-A0-002
126002	13370	TEMP, A107 CLUTCH OUTPUT BEARING	32/240 DEG F	DAS + SC	PC1-2306	BP1-A0-003
126003	13371	TEMP, A126 CLUTCH OUTPUT BEARING	32/240 DEG F	DAS + SC	PC1-2301	BP1-A0-004
126004	13372	TEMP, A127 CLUTCH OUTPUT BEARING	32/240 DEG F	DAS + SC	PC1-2301	BP1-A0-005
126005	13373	TEMP, A106 CLUTCH COOLING WATER	32/251 DEG F	DAS + SC	PC1-2306	BP1-A0-006
126006	13374	TEMP, A107 CLUTCH COOLING WATER	32/251 DEG F	DAS + SC	PC1-2306	BP1-A0-007
126007	13375	TEMP, A126 CLUTCH COOLING WATER	32/251 DEG F	DAS + SC	PC1-2301	BP1-A0-008
126008	13376	TEMP, A127 CLUTCH COOLING WATER	32/251 DEG F	DAS + SC	PC1-2301	BP1-A0-009
126009	13377	TEMP, A106 PUMP RADIAL BEARING	0/215 DEG F	DAS + SC	PC1-2306	BP1-A0-010
126010	13400	TEMP, A106 PUMP THRUST BEARING	0/215 DEG F	DAS + SC	PC1-2306	BP1-A0-011
126011	13401	TEMP, A107 PUMP RADIAL BEARING	0/215 DEG F	DAS + SC	PC1-2306	BP1-A0-012
126012	13402	TEMP, A107 PUMP THRUST BEARING	0/215 DEG F	DAS + SC	PC1-2306	BP1-A0-013
126013	13403	TEMP, A126 PUMP RADIAL BEARING	0/215 DEG F	DAS + SC	PC1-2301	BP1-A0-014
126014	13404	TEMP, A127 PUMP RADIAL BEARING	0/215 DEG F	DAS + SC	PC1-2301	BP1-A0-015
126015	13405	TEMP, A106 CLUTCH INPUT BEARING	32/240 DEG F	DAS + SC		BP1-A0-016
126016	13406	TEMP, A106 CLUTCH TRUNNION BEAR.	32/240 DEG F	DAS + SC		BP1-A0-017

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
* 126018 *	* 13410 *	* TEMP, A107 CLUTCH TRUNNION BEAR. *	* 32/240 DEG F *	* DAS + SC *		* BP1-A0-019 *
* 126019 *	* 13411 *	* TEMP, A126 CLUTCH INPUT BEARING *	* 32/240 DEG F *	* DAS + SC *		* BP1-A0-020 *
* 126020 *	* 13412 *	* TEMP, A126 CLUTCH TRUNNION BEAR. *	* 32/240 DEG F *	* DAS + SC *		* BP1-A0-021 *
* 126021 *	* 13413 *	* TEMP, A127 CLUTCH INPUT BEARING *	* 32/240 DEG F *	* DAS + SC *		* BP1-A0-022 *
* 126022 *	* 13414 *	* TEMP, A127 CLUTCH TRUNNION BEAR. *	* 32/240 DEG F *	* DAS + SC *		* BP1-A0-023 *
* 12K002 *	* 13652 *	* TEMP AMBIENT PAD A CAMERA SITE 3 *	* 10/110 DEG F *	* DAS + SC *	* PC1-2343 *	* BP1-A0-181 *
* 12K003 *	* 13653 *	* TEMP AMBIENT PAD A CAMERA SITE 6 *	* 10/110 DEG F *	* DAS + SC *	* PC1-2343 *	* BP1-A0-182 *
* 12K010 *	* 13626 *	* TEMP AIR/GN2 IN S-1C AFT COMPARTMENT *	* 30/100 DEG F *	* DAS + MP *		* BP1-A0-161 *
* 12K011 *	* 13627 *	* TEMP AIR/GN2 IN S-1I AFT COMPARTMENT *	* 30/100 DEG F *	* DAS + MP *		* BP1-A0-162 *
* 12K012 *	* 13630 *	* TEMP AIR/GN2 IN S-1V-B AFT COMPARTMENT *	* 30/100 DEG F *	* DAS + MP *		* BP1-A0-163 *
* 12K017 *	* 13631 *	* TEMP, INST. UNIT COMPARTMENT AMB *	* 30/100 DEG F *	* DAS *		* BP1-A0-164 *
* 12K018 *	* 13632 *	* TEMP, INST. UNIT COMPARTMENT AMB *	* 30/100 DEG F *	* DAS *		* IBM MEAS. NO. C136-601 *
* 13C071 *	* 13632 *	* TEMP., AMBIENT OF BASE OF MEASUREMENT 31C184 *	* 32-905 DEG F *	* VDAS *		* BP1-A0-165 *
* 13C072 *	* 13632 *	* TEMP., AMBIENT OF BASE OF MEASUREMENT 31C185 *	* 32-905 DEG F *	* VDAS *		* IBM MEAS. NO. C500-601 *
* 13C073 *	* 13632 *	* TEMP., AMBIENT OF BASE OF MEASUREMENT 31C186 *	* 32-905 DEG F *	* VDAS *		
* 13K001 *	* 13472 *	* TEMP SURFACE RP-1 FLEX HOSE ON RP-1 SERV TOWER *	* 32/905 DEG F *	* DAS *	* PC1-2317 *	* BP1-A0-069 *
* 21C016 *		* ACCELERATION OF SWING ARM NO. 8 HORIZ. *	* +-5 G *	* O GRAPH *	* PC1-2535 *	* VAB HIGH BAY TESTS ONLY *
* 21C017 *		* ACCELERATION OF SWING ARM NO. 1 HORIZ. *	* +-5 G *	* O GRAPH *	* PC1-2528 *	* VAR HIGH BAY TESTS ONLY *

DATE 17 MAR 72

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

***** MEAS. NO. *****	***** DISPLAY *****	***** MEASUREMENT DESCRIPTION *****	***** RANGE *****	***** RECORDER *****	***** DRAWING *****	***** REMARKS *****
*****	*****	*****	*****	*****	***** NO. *****	*****
21C018	*	ACCELERATION OF SWING ARM NO. 2 HORIZ.	* +-5 G	* 0 GRAPH	* PC1-2529	* VAB HIGH BAY TESTS ONLY
21C019	*	ACCELERATION OF SWING ARM NO. 4 HORIZ.	* +-5 G	* 0 GRAPH	* PC1-2531	* VAB HIGH BAY TESTS ONLY
21C020	*	ACCELERATION OF SWING ARM NO. 5 HORIZ.	* +-5 G	* 0 GRAPH	* PC1-2532	* VAB HIGH BAY TESTS ONLY
21C021	*	ACCELERATION OF SWING ARM NO. 6 HORIZ.	* +-5 G	* 0 GRAPH	* PC1-2533	* VAB HIGH BAY TESTS ONLY
21C022	*	ACCELERATION OF SWING ARM NO. 7 HORIZ.	* +-5 G	* 0 GRAPH	* PC1-2534	* VAB HIGH BAY TESTS ONLY
22A001	*	VIB FLOOR ECS RM (NORM)	* +-25 G 10/2000 HZ	* VDAS	* PC1-2345	*
22A002	*	VIB WALL ECS RM (NORM) MIDWAY	* +-25 G 10/2000 HZ	* VDAS	* PC1-2345	*
22A003	*	VIB CEILING ECS RM (NORM) ON CEILING	* +-25 G 10/2000 HZ	* VDAS	* PC1-2345	*
22A004	*	VIB TOP EQUIP ECS RM (NORM)	* +-25 G 10/2000 HZ	* VDAS	* PC1-2345	*
22A005	*	VIB TOP OF INSTRUMENT RACK NO 1 VERTICAL, ECS ROOM	* +-25 G 10/2000 HZ	* VDAS	* PC1-2639	*
22A006	*	VIB TOP OF TEE TO LOWER PURGE GN2 RELIEF VALVE, VERT ECS ROOM	* +-25 G 10/2000 HZ	* VDAS	* PC1-2639	*
22A007	*	VIB TOP OF SOUTH COOLING COIL CHANGER, VERTICAL, ECS ROOM	* +-25 G 10/2000 HZ	* VDAS	* PC1-2639	*
22A008	*	VIB TOP OF SOUTH DISCHARGE MANIFOLD, VERTICAL, ECS ROOM	* +-25 G 10/2000 HZ	* VDAS	* PC1-2639	*
22A009	*	VIB TOP OF INSTRUMENT RACK NO. 4 VERTICAL, ECS ROOM	* +-25 G 10/2000 HZ	* VDAS	* PC1-2639	*
22A010	*	VIB TOP OF CENTRIFUGAL CHILLER NO. 3 VERTICAL, ECS ROOM.	* +-25 G 10/2000 HZ	* VDAS	* PC1-2639	*

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
22A011		VIB TOP OF SPEED INCREASER FOR CHILLER NO. 3 VERTICAL	+25 G 10/2000 HZ	VDAS	PC1-2639	
22A012		VIB, TOP OF MOTOR FOR CHILLER NO. 3 VERTICAL, ECS ROOM	+25 G 10/2000 HZ	VDAS	PC1-2639	
22A013		VIB VERT REAR TOP OF RACK 4 ROW B RM 208	+5 G 10/2000 HZ	VDAS	PC1-3670	
22A014		VIB (F.TO R.) REAR TOP OF RACK 4 ROW B RM 208	+5 G 10/2000 HZ	VDAS	PC1-3670	
22A015		VIB (S.TO S.) SIDE OF RACK 1 ROW B RM 208	+5 G 10/2000 HZ	VDAS	PC1-3670	
22A016		VIB (VERT) TOP FACE OF RACK 4 ROW E RM 208	+5 G 10/2000 HZ	VDAS	PC1-3670	
22A017		VIB (F.TO R.) TOP FACE OF RACK 4 ROW E RM 208	+5 G 10/2000 HZ	VDAS	PC1-3670	
22A018		VIB (S.TO S.) TOP REAR OF RACK 1 ROW E RM 208	+5 G 10/2000 HZ	VDAS	PC1-3670	
22E001		VIB HIGH PRESSURE BATTERY LAST SIDE OF PAJ A (VERTICAL) ON BASE OF GH TANK FIND NO A-2717	+50 G 10/2000 HZ	VDAS		
22E002		VIB HIGH PRESSURE BATTERY LAST SIDE OF PAJ A (VERTICAL) ON BASE OF GH TANK FIND NO A-5073	+50 G 10/2000 HZ	VDAS		
22E003		VIB HIGH PRESSURE BATTERY LAST SIDE OF PAJ A (VERTICAL) ON BASE OF GH TANK FIND NO A-2716	+50 G 10/2000 HZ	VDAS		
22K001		VIB LUT PEDESTAL (VERT) COR SIDE 1 + 2 AS SHOWN	+25 G 10/2000 HZ	VDAS	PC1-2345	
22K002		VIB LUT PEDESTAL (HOK + PAJA TO SID1) CORNER SIDE 1 + 2 AS SHOWN	+25 G 10/2000 HZ	VDAS	PC1-2345	

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING	REMARKS
NO.	REQ. NO.				NO.	
22K003		VIB LUT PEDESTAL (HOR + PARA TO SIDE 2) CORPUS SIDE 1 + 2 AS SHOWN	+25 G 10/2000 HZ	VDAS	PC1-2345	
22K004		VIB RP-1 SERV TWR (XDCR MTD HORZ + PARA TO LUT SIDE 1) TOP LANDING MAIN CHAN ON E SIDE	+50 G 10/2000 HZ	VDAS	PC1-2317	
22K005		VIB RP-1 SERV TWR (XDCR MTD HORZ + PARA TO LUT SIDE 4) TOP LANDING MAIN CHAN ON E SIDE	+50 G 10/2000 HZ	VDAS	PC1-2317	
22K006		VIB RP-1 SERV TWR (XDCR MTD VERT) TOP LANDING MAIN CHAN ON E SIDE	+50 G 10/2000 HZ	VDAS	PC1-2317	
22K007		VIB BOOSTER PUMP SUB STATION TRANSFORMER COVER PLATE VERTICAL	+25 G 10/2000 HZ	VDAS	PC1-2871	
22K008		VIB BOOSTER PUMP SUB STATION TRANSFORMER COVER PLATE TRANSVERSE	+25 G 10/2000 HZ	VDAS	PC1-2871	
22K009		VIB BOOSTER PUMP SUB STATION TRANSFORMER COVER PLATE LONGITUDINAL	+25 G 10/2000 HZ	VDAS	PC1-2871	
22K011		VIB BOOSTER PUMP SUB STATION TRANSFORMER SWITCH GEAR INSIDE CUBICLE DOOR TRANSVERSE	+25 G 10/2000 HZ	VDAS	PC1-2871	
22K012		VIB BOOSTER PUMP SUB STATION TRANSFORMER SWITCH GEAR INSIDE CUBICLE DOOR VERTICAL	+25 G 10/2000 HZ	VDAS	PC1-2871	
22K021		VIB HIGH PRESSURE GAS TRANS- FORMER COVER PLATE VERTICAL	+25 G 10/2000 HZ	VDAS	PC1-2871	
22K022		VIB HIGH PRESSURE GAS TRANS- FORMER COVER PLATE TRANSVERSE	+25 G 10/2000 HZ	VDAS	PC1-2871	
22K023		VIB HIGH PRESSURE GAS TRANS- FORMER COVER PLATE LONGITUDINAL	+25 G 10/2000 HZ	VDAS	PC1-2871	
22K033		VIB BOOSTER PUMP SUB STATION TRANSFORMER SWITCH GEAR INSIDE CUBICLE DOOR LONGITUDINAL	+25 G 10/2000 HZ	VDAS	PC1-2871	

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
22K043		VIB SWITCH STATION TRANSFORMER	+25 G	VDAS	PC1-2871	
		SWITCH GEAR INSIDE CUBICLE DOOR	10/2000 HZ			
		VERTICAL				
22K044		VIB SWITCH STATION TRANSFORMER	+25 G	VDAS	PC1-2871	
		SWITCH GEAR INSIDE CUBICLE DOOR	10/2000 HZ			
		TRANSVERSE				
22K045		VIB SWITCH STATION TRANSFORMER	+25 G	VDAS	PC1-2871	
		SWITCH GEAR INSIDE CUBICLE DOOR	10/2000 HZ			
		LONGITUDINAL				
22K056		VIB VERT BOOSTER PUMP SUBSTATION	+15 G	VDAS	PC1-2871	
		927 MAIN POWER CIRCUIT BREAKER	10/2000 HZ			
22K057		VIB LONG BOOSTER PUMP SUBSTATION	+15 G	VDAS	PC1-2871	
		927 MAIN POWER CIRCUIT BREAKER	10/2000 HZ			
22K058		VIB TRANS BOOSTER PUMP SUB-	+15 G	VDAS	PC1-2871	
		STATION 927 MAIN POWER CIRCUIT	10/2000 HZ			
		BREAKER				
22K059		VIB VERT BOOSTER PUMP SUBSTATION	+15 G	VDAS	PC1-2871	
		ON NEW SUPERVISORY AUTO PANEL	10/2000 HZ			
22K060		VIB LONG BOOSTER PUMP SUBSTATION	+15 G	VDAS	PC1-2871	
		927 NEW SUPERVISORY AUTO PANEL	10/2000 HZ			
22K061		VIB TRANS BOOSTER PUMP SUB-	+15 G	VDAS	PC1-2871	
		STATION 927 NEW SUPERVISORY AUTO	10/2000 HZ			
		PANEL				
22K062		VIB VERT SWITCHING STATION 902	+15 G	VDAS	PC1-2871	
		INDUSTRIAL BUS NO 1 ON MAIN	10/2000 HZ			
		POWER BREAKER				
22K063		VIB LONG SWITCHING STATION 902	+15 G	VDAS	PC1-2871	
		INDUSTRIAL BUS NO 1 ON MAIN	10/2000 HZ			
		POWER BREAKER				
22K064		VIB TRANS SWITCHING STATION 902	+15 G	VDAS	PC1-2871	
		INDUSTRIAL BUS NO 1 ON MAIN	10/2000 HZ			
		POWER BREAKER				
22K065		VIB VERT SWITCHING STATION 902	+15 G	VDAS	PC1-2871	
		INDUSTRIAL BUS NO 1 ON SUPER-	10/2000 HZ			
		VISORY PANEL				

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
22K006		VIB LONG SWITCHING STATION 902 INDUSTRIAL BUS NO 1 ON SUPPLY VISORY PANEL	+15 G 10/2000 HZ	VDAS	PC1-2871	
22K007		VIB TRANS SWITCHING STATION 902 INDUSTRIAL BUS NO 1 ON SUPERVISORY PANEL	+15 G 10/2000 HZ	VDAS	PC1-2871	
25A001		ACOUSTIC, PTCR RM 208 ON RACK 3 ROW B	110/140 DB	MAG TAPE		
25K008		ACOUSTICS, 600 FT FROM VEH CL AT 60 DEG ADCR FACING VEHICLE	124/164 DB	MAG TAPE	PC1-2341	
25K011		ACOUSTICS, 600 FT FROM VEH CL AT 120 DEG ADCR FACING VEHICLE	124/164 DB	MAG TAPE	PC1-2341	
25K014		ACOUSTICS, 600 FT FROM VEH CL AT 225 DEG ADCR FACING VEHICLE	124/164 DB	MAG TAPE	PC1-2341	
26C001	12776	WIND SPEED LUT 445 FT LEVEL	0/60 KNOTS	SEE REMARKS	PC1-2553	API-A0-161 DAS,CM AT FR,LUT + PTCR SC AT LCC + LUT
26C002	13000	WIND DIRECTION LUT 445 FT LEVEL	0/540 DEG	SEE REMARKS	PC1-2553	API-A0-163 DAS,CM AT FR,LUT + PTCR SC AT LCC + LUT
26C005	13002	WIND SPEED LUT 195 FT LEVEL CON. S. 3-4	0/60 KNOTS	SEE REMARKS	PC1-2553	API-A0-165 DAS,CM AT FR,LUT + PTCR SC AT LCC + LUT
26C006	13003	WIND DIRECTION 195 FT LEVEL CON. S. 3-4	0/540 DEG	SEE REMARKS	PC1-2553	API-A0-166 DAS,CM AT FR,LUT + PTCR SC AT LCC + LUT
26C007	12777	WIND SPEED LUT 445 FT LEVEL REDUNDANT TO 26C001	0/60 KNOTS	DAS + SC	PC1-2553	API-A0-162

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

PEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*REORDER*	*DRAWING*	*REMARKS*
REG. NO.					*NO.*	
26C008	13001	WIND DIRECTION LOT 445 FT LEVEL REDUNDANT TO 26C002	0/540 DEG	DAS + SC	PCI-2553	AP1-A0-164
26K001	13054	WIND SPEED 60 FOOT LIGHT POLE CAMERA SITE 3	0/60 KNOTS	DAS + SC	PCI-2343	BP1-A0-183
26K002	13655	WIND DIRECTION 60 FOOT LIGHT POLE CAMERA SITE 3	0/540 DEG	DAS + SC	PCI-2343	BP1-A0-184
26K003	13656	WIND SPEED 60 FOOT LIGHT POLE CAMERA SITE 6	0/60 KNOTS	DAS + SC	PCI-2343	BP1-A0-185
26K004	13657	WIND DIRECTION 60 FOOT LIGHT POLE CAMERA SITE 6	0/540 DEG	DAS + SC	PCI-2343	BP1-A0-186
26K005	13660	BAROMETRIC PRESSURE CAMERA SITE	26-31 IN HG	DAS + SC	PCI-2343	BP1-A0-187
26K006	13661	BAROMETRIC PRESSURE CAMERA SITE	26-31 IN HG	DAS + SC	PCI-2343	BP1-A0-188
26K007	13662	SOLAR RADIATION CAMERA SITE 4 TOTAL	0-2 LANGLEY	DAS + SC	PCI-2343	BP1-A0-189
26K008	13663	SOLAR RADIATION CAMERA SITE 4 NORMAL	0-2 LANGLEY	DAS + SC	PCI-2343	BP1-A0-190
31B034	12003	STRAIN SLOW RELEASE PIN NO. 2 LONGT HOLDOWN ARM POS 1	0/1600 MI/I	SC	PCI-2551	RECORD DURING PRELOAD ONLY
31B035	12003	STRAIN SLOW RELEASE PIN 3 LONGT HOLDOWN ARM POS 1	0/1600 MI/I	VDAS DAS + SC	PCI-2551	AP1-A0-038
31B038	12004	STRAIN SLOW RELEASE PIN 2 LONGT HOLDOWN ARM POS II	0/1600 MI/I	VDAS DAS + SC	PCI-2551	AP1-A0-039
31B039	12004	STRAIN SLOW RELEASE PIN NO. 3 LONG T HOLDOWN ARM POS II	0/1600 MI/I	SC	PCI-2551	RECORD DURING PRELOAD ONLY
31B042	12004	STRAIN SLOW RELEASE PIN NO. 2 LONG T HOLDOWN ARM POS II	0/1600 MI/I	SC	PCI-2551	RECORD DURING PRELOAD ONLY
31B043	12607	STRAIN SLOW RELEASE PIN 3 LONGT HOLDOWN ARM POS II	0/1600 MI/I	VDAS DAS + SC	PCI-2551	AP1-A0-042

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FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
REG. NO.						
31B046	12610	STRAIN SLOW RELEASE PIN 2 LONGT HOLDOWN ARM POS IV	0/1600 UI/I	VDAS DAS + SC	PC1-2551* AP1-A0-043	
31B047		STRAIN SLOW RELEASE PIN NO. 3 LONG T HOLDOWN ARM POS IV	0/1600 MI/I	SC	PC1-2551*	RECORD DURING PRELOAD ONLY
31C123		FORCE SERVICE MODULE WITHDRAWAL CABLE END OF SERVICE ARM NO. 8	0/2000 LBS	SC		VAR HIGH BAY TESTS ONLY
31C124		FORCE REDUNDANT MODULE WITH- DRAWAL CABLE END OF SER ARM NO. 8	0/2000 LBS	SC		VAB HIGH BAY TESTS ONLY
31C184		MAXOMETER, PEAK WIND SPEED LUT LEV 220, COR 1-2 CAMERA PLATFORM	0-200 M/SEC	N/A		
31C185		MAXOMETER, PEAK WIND SPEED LUT LEV 220, COR 1-4 CAMERA PLATFORM	0-200 M/SEC	N/A		
31C186		MAXOMETER, PEAK WIND SPEED LUT LEV 367 COR 1-4 DAMPER ARM PLAT	0-200 M/SEC	N/A		
31K005	12604	TENSION SLIDEWIRE AT ANCHOR POINT AT LUT 340 FT LEVEL PAD A	0/50000 LBS	DAS + SC		AP1-A0-087
32B003	13502	POSITION R-P1 ANTI VALVE LUT LEVEL A AT VALVE A4062	0/100 PCT OPEN	DAS + SC	PC1-2518*	RP1-A0-077
32C001	13561	POSITION SIVB STAGL LH2 ANTI VALVE LUT 200 FT LLVL AT VALVE A3311	0/100 PCT OPEN	DAS + SC	PC1-2512*	BP1-A0-124
32C002	13562	POSITION S-11 STAGL LH2 ANTI VALVE LUT 120 FT LLVL AT VALVE A3310	0/100 PCT OPEN	DAS + SC	PC1-2512*	BP1-A0-125
32C003	13534	POSITION LUX REPLENISH CONT. VALVE A202 LUT 30 FT LEVEL (ANTI VALVE)	0/100 PCT OPEN	DAS + SC	PC1-2504*	BP1-A0-103

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

* MEAS. NO. * * REQ. NO. *	* DISPLAY * * MEASUREMENT DESCRIPTION *	* RANGE *	* RECORDER * * NO. *	* DRAWING * * NO. *	* REMARKS *
32C004	13535* POSITION LOX REPLENISH CONT. * VALVE A205 LUT 120 FT LEVEL * (ANNIN VALVE)	0/100 PCT OPEN	DAS + SC	PC1-2505*	BP1-A0-104
32C005	13536* POSITION LOX REPLENISH CONT. * VALVE A206 LUT 200 FT LEVEL * (ANNIN VALVE)	0/100 PCT OPEN	DAS + SC	PC1-2505*	BP1-A0-105
32C006	12564* POS. APOLLO ACCESS ARM ENVIRO. * CHAMBER, LATERAL N-S DIRECTION	+ -12 IN	DAS + SC		AP1-A0-023
32C007	12565* POS. APOLLO ACCESS ARM ENVIRO. * CHAMBER, LATERAL E-W DIRECTION	+ -12 IN	DAS + SC		AP1-A0-024
32C012	13417* POSITION DAMPER CYL RIGHT SIDE * PRIMARY DAMPER ARM LUT	0/48 INCHES	DAS	PC1-2549*	BP1-A0-026
32C013	13420* POSITION DAMPER CYL LLFT SIDE * PRIMARY DAMPER ARM LUT	0/48 INCHES	DAS	PC1-2549*	BP1-A0-027
326001	13366* POSITION LOX VAPORIZER FLOW * CONTROL VALVE A12 1 1/2 INCH * TRAVEL AT LOX FACILITY	0/100 PCT OPEN	DAS + SC	PC1-2302*	BP1-A0-001
326002	13537* POSITION, IM FLOW CONTROL BYPASS * VALVE A197	0/100 PCT OPEN	DAS + SC	PC1-2302*	BP1-A0-106
326003	13540* POSITION, IM FLOW CONTROL BYPASS * VALVE A136	0/100 PCT OPEN	DAS + SC	PC1-2302*	BP1-A0-107
336001	13541* FLOW RATE LOX REPLENISH LINE * LOX FACILITY FLOW METER A67	0/1500 GPM	DAS + SC	PC1-2302*	BP1-A0-108
336002	13542* FLOW RATE 14 INCH LOX LINE * LOX FACILITY FLOW METER A68	0/12000 GPM	DAS + SC	PC1-2303*	BP1-A0-109
336003	13543* FLOW RATE 12 INCH LOX LINE * LOX FACILITY FLOW METER A69	0/12000 GPM	DAS + SC	PC1-2302*	BP1-A0-110
336004	13430* FLOW RATE, A106 CLUTCH COOLING * WATER	0/90 GPM	DAS + SC	PC1-2306*	BP1-A0-035

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*REORDER*	*DRAWING NO.*	*REMARKS*
336005	13431*	FLOW RATE, A107 CLUTCH COOLING WATER	0/90 GPM	DAS + SC	PC1-2306*	BP1-A0-036
336006	13432*	FLOW RATE, A126 CLUTCH COOLING WATER	0/50 GPM	DAS + SC	PC1-2302*	BP1-A0-037
336007	13433*	FLOW RATE, A127 CLUTCH COOLING WATER	0/50 GPM	DAS + SC	PC1-2302*	BP1-A0-038
336008	13544*	FLOW RATE LOX REPLENISH LINE REDUNDANT TO 33601	0/1500 GPM	DAS + SC	PC1-2302*	BP1-A0-111
336009	13545*	FLOW RATE 14 INCH LOX LINE REDUNDANT TO 33602	0/12000 GPM	DAS + SC	PC1-2303*	BP1-A0-112
33K003	13427*	FLOW RATE RP-1 TO VEHICLE AT PEDESTAL	0/3000 GPM	DAS + SC	PC1-2317*	BP1-A0-034
33K006	13444*	FLOW RATE, POTABLE WATER TO LH2 BURN POND	+/-10 PSID	DAS + SC	PC1-2308*	BP1-A0-047
34F001	13463*	RPM RP-1 TRANSFER PUMP RP-1 STORAGE AREA	0/3800 RPM	DAS + SC	PC1-2315*	BP1-A0-062
34G001	13546*	RPM, A106 LOX PUMP	0/1800 RPM 1280 HZ	DAS + SC	PC1-2306*	BP1-A0-113
34G002		RPM, A107 LOX PUMP	0/1800 RPM 720 HZ	DAS + SC	PC1-2306*	
34G003	13547*	RPM, A126 LOX PUMP	0/3600 RPM	DAS + SC	PC1-2301*	BP1-A0-114
34G004		RPM, A127 LOX PUMP	0/3600 RPM	DAS + SC	PC1-2301*	
34K002	13671*	RPM INDUSTRIAL WATER PUMP P-1	0/2000 RPM	DAS + SC	PC1-4004*	BP1-A0-196

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

P.EAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
35F001	13474	LIQUID LEVEL RP-1 STORAGE TANK AT RP-1 STORAGE FACILITY	0/263 K GAL	DAS + SC	PC1-2316*	BPI-A0-071
35G001	13550	LIQUID LEVEL LOX STORAGE TANK AT LOX STORAGE FACILITY	0/950 K GAL	DAS + SC	PC1-2301*	BPI-A0-115
35H001	13563	LIQUID LEVEL LH2 STORAGE TANK AT LH2 STORAGE FACILITY	0/900 K GAL	DAS + SC	PC1-2308*	BPI-A0-126
39C002		CORONA CURRENT MIDPOINT OF LUT CRANE ROOM	N/A	SC	PC1-2533*	
39C003		MAGNETIC LINK LUT LIGHTNING MAST TOP	N/A	MAG LINK*	PC1-2533*	
39C004		LIGHTNING DISCHARGE COUNTER TOP OF LIGHTNING MAST	N/A	SC	PC1-2533*	
39C005		MAG LINK CRANE CAB TOP OF LUT	N/A	MAG LINK*	PC1-2353*	
39C008		STROKE CURRENT AT BASE OF LIGHTN ING MAST	0/60K AMPS	SC		
39C016		LIGHTNING CURRENT WAVEFORM LUT 3 LIGHTNING MAST	1KV/200KA	SC		
39C017		LIGHTNING INDUCED CURRENT, LIGHT MAST CABLES, TOP OF LUT 3	1KV/200KA	SC		
39K015		POTENTIAL GRADIENT SITE 8	+/-15 KV/M	SC	PC1-2344*	
39K016		CORONA CURRENT SITE 8	+/-12.5 UA	SC	PC1-2344*	
39K017		MAG. LINK, ON SLIDEWIRE BETWEEN BARRIER AND SUPPORT TOWER	NA	MAG LINK*		
39K018		MAG. LINK ON SLIDEWIRE WITHIN 18" INCHES OF ANCHORING POINT ON LUT	NA	MAG LINK*		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
*41A001	*13674*	*SIGNAL AT I-U*	*0/5 VOLTS*	*DAS*	*BP1-A0-199*	
*41B001	*13214*	*SIGNAL AT T-U, ROOM 108 LUT*	*0/5 VOLTS*	*DAS*	*AP2-A0-099*	
*41K001	*13670*	*SIGNAL PAMS START*	*OFF 0 VOLTS*	*DAS*	*BP1-A0-195*	
*41K005		*SIGNAL, PAD A ELEVATOR COMMAND*	*ON 6V OR 28V*		*SC RTSW TO DAS*	
*41K006		*SIGNAL, CONTACT C1 CLOSURE*	*OFF/ON*	*SC*		
*41K007		*SIGNAL, CONTACT C2 CLOSURE*	*OFF/ON*	*SC*		
*41K008		*SIGNAL, CONTACT C3 CLOSURE*	*OFF/ON*	*SC*		
*42A001	*13633*	*KW S-IC AFT HEATER BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-166*
*42A002	*13634*	*KW S-IC FWD LMK HEATER BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-167*
*42A003	*13635*	*KW S-II AFT HEATER BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-168*
*42A004	*13636*	*KW S-II AFT ELECTRICAL HEATER BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-169*
*42A005	*13637*	*KW S-II FWD HTR. BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-170*
*42A006	*13640*	*KW S-IVB AFT HTR. BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-171*
*42A007	*13641*	*KW IU HTR. BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-172*
*42A008	*13642*	*KW SERVICE HTR. BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-173*
*42A009	*13643*	*KW COMMAND HTR. BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-174*
*42A010	*13644*	*KW S-IC FWD UPPER HTR. BANK 1 AND 2 REHEAT ECS ROOM*	*0/100 PCT*	*DAS + MP*	*PC1-2639*	*BP1-A0-175*

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM

AS-511 LC-39

MEAS. NO.	DISPLAY REQ. NO.	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
42A025	13675	VOLTAGE CONSTANT VOLTAGE SOURCE ROOM 208 PTCR	0/10 VOLTS	DAS		BP1-A0-200
42B001	13215	VOLTAGE CONSTANT VOLTAGE SOURCE	0/10 VOLTS	DAS		AP2-A0-100
42K001		VOLTAGE DIFFERENTIAL ACROSS LUT PEDESTAL LEG	+/-10 MV	S/C	PC1-2553	
42K002		VOLTAGE, DAS F+E SYSTEMS CALIBRATION	0/5 VDC	DAS		
44A001		RELATIVE HUMIDITY OUTSIDE OF ECS ROOM		HYGRO- THERMO- GRAPH		
44B001		REL HUMIDITY AT RCA 110 LUT RM 15A		HYGRO- THERMO- GRAPH		
44K001	13665	RELATIVE HUMIDITY AMBIENT CAMERA SITE 3	0/100 PCT	DAS + SC	PC1-2343	BP1-A0-192
44K002	13666	RELATIVE HUMIDITY AMBIENT CAMERA SITE 6	0/100 PCT	DAS + SC	PC1-2343	BP1-A0-193

DATE 17 MAR 72

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
50C001	*	H2 SENSOR VENT LINE EXPANSION JOINT AT LUT DISCONNECT	0/4 PCT	SC	PC1-3807*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C002	*	H2 SENSOR VENT LINE EXPANSION JOINT BASE OF VENT PIPE LUT	0/4 PCT	SC	PC1-3808*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C003	*	H2 SENSOR VENT LINE EXPANSION 100 FOOT LEVEL LUT	0/4 PCT	SC	PC1-3807*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C004	*	H2 SENSOR VENT LINE EXPANSION 140 FOOT LEVEL LUT	0/4 PCT	SC	PC1-3808*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C005	*	H2 SENSOR VENT LINE EXPANSION 200 FOOT LEVEL LUT	0/4 PCT	SC	PC1-3807*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C006	*	H2 SENSOR REPLENISH VALVE LVT A3310 LUT	0/4 PCT	SC	PC1-3808*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C007	*	H2 SENSOR MAIN FILL VALVE LVT A3322 LUT	0/4 PCT	SC	PC1-3811*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C008	*	H2 SENSOR MAIN FILL VALVE REDUNDANT A-3305 LUT	0/4 PCT	SC	PC1-3807*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C009	*	H2 SENSOR UMBILICAL VENT VALVE A3316 LUT	0/4 PCT	SC	PC1-3811*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C010	*	H2 SENSOR UMBILICAL VENT VALVE A3364 LUT	0/4 PCT	SC	PC1-3807*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C011	*	H2 SENSOR FILTER BUST DISFLANGE ASSEMBLY A-3415 LUT	0/4 PCT	SC	PC1-3811*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C012	*	H2 SENSOR DEBRIS VALVE SWING ARM NO 4 A-7053 LUT	0/4 PCT	SC	PC1-3807*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C013	*	H2 SENSOR HEAT EXCHANGER INLET VALVE A-8948 LUT	0/4 PCT	SC	PC1-3811*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C014	*	H2 SENSOR VENT CHECK VALVE A-3443 LUT	0/4 PCT	SC	PC1-3807*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C015	*	H2 SENSOR ABOVE VENT MANIFOLD BENEATH VALVE SAID	0/4 PCT	SC	PC1-3811*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C016	*	H2 SENSOR HEAT EXCHG VALVE AND FLEX HOSE A-3450 LUT	0/4 PCT	SC	PC1-3807*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
50C017	H2 SENSOR DISCONNECT VEHICLE SWING ARM 4 FILL AND DRAIN	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C018	H2 SENSOR VACUUM JACKET MECHANICAL JOINT SWING ARM 4	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C019	H2 SENSOR DISCONNECT VEHICLE VENT SWING ARM 5 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C020	H2 SENSOR INSTRUMENT CABINET 6100-A1 VENT LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C021	H2 SENSOR REPLENISH VALVE A-3311 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C022	H2 SENSOR MAIN FILL VALVE A-3321 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C023	H2 SENSOR MAIN FILL VALVE REDUNDANT A-3308 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C024	H2 SENSOR UMBILICAL VENT VALVE A-3317 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C025	H2 SENSOR UMBILICAL VENT VALVE REDUNDANT (A-3366) LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C026	H2 SENSOR UMBILICAL VENT VALVE BY-PASS A-3367 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C027	H2 SENSOR FILTER BURST DISCONNECT FLANGE A-3314 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C028	H2 SENSOR HEAT EXCHG INLET VALVE A-12273 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C029	H2 SENSOR VENT CHECK VALVE A3442 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C030	H2 SENSOR HEAT EXCHG OUTLET CHECK AND FLEX (A-3444) LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C031	H2 SENSOR DEFROST VALVE SWING ARM NO 6 (A-7654) LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50C032	H2 SENSOR ABOVE VENT MANIFOLD BENEATH VALVE SKIL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	REORDER	DRAWING NO.	REMARKS
50C033	*	H2 SENSOR DISCONNECT VEHICLE FILL AND DRAIN SWING ARM NO 6	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C034	*	H2 SENSOR VACUUM JACKET MECHANICAL JOINT SW ARM NO 6	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C035	*	H2 SENSOR DISCONNECT VEHICLE VENT SWING ARM NO 7 LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C036	*	H2 SENSOR INSTRUMENT CABINET 0200A1 VENT PORT LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C037	*	H2 SENSOR DISCONNECT TOWER LUT INTERFACE	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C038	*	H2 SENSOR 40 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C039	*	H2 SENSOR 60 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C040	*	H2 SENSOR 80 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C041	*	H2 SENSOR 100 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C042	*	H2 SENSOR 120 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C043	*	H2 SENSOR 140 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C044	*	H2 SENSOR 160 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C045	*	H2 SENSOR 180 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C046	*	H2 SENSOR 200 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C047	*	H2 SENSOR 220 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C048	*	H2 SENSOR 240 FOOT LEVEL LUT	0/4 PCT	SC	PCI-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORD	DRAWING	REMARKS
REQ. NO.					NO.	
50C049	*	H2 SENSOR 180 FT LVL, CONSOLE	0/4 PCT	SC	PC1-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50C050	*	H2 SENSOR 130 FT LVL, CONSOLE	0/4 PCT	SC	PC1-3807	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H001	*	H2 SENSOR STORAGE TANK AUXILIARY	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H002	*	H2 SENSOR FILL HOSE ON INLET	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H003	*	H2 SENSOR PRE-CONDITION VALVE	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H004	*	H2 SENSOR STORAGE TANK VENT	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H005	*	H2 SENSOR TRANS-LINE ISOLATION	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H006	*	H2 SENSOR TRANS-LINE VALVE	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H007	*	H2 SENSOR TRANS-LINE CHILLDOWN	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H008	*	H2 SENSOR TRANS-LINE VENT VALVE	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H009	*	H2 SENSOR STORAGE TANK VENT	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H010	*	H2 SENSOR STORAGE TANK VACUUM	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H011	*	H2 SENSOR FILL LINE VALVE	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H012	*	H2 SENSOR PNEUMATIC A3302 LH2 AREA	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H013	*	H2 SENSOR AUXILIARY VAPOR SUPPLY	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
REQ. NO.						
50H014	*	H2 SENSOR MAIN VAPOR SUPPLY VALVE A-3361 LH2 AREA	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H015	*	H2 SENSOR MAIN VAPOR CONTROL VALVE A-3304 LH2 AREA	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H016	*	H2 SENSOR FLEX HOSE ON INLET SIDE A-3333 LH2 AREA	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H017	*	H2 SENSOR PRIMARY VAPOR FLANGE LH2 AREA	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H018	*	H2 SENSOR PRIMARY VAPOR FLANGE LH2 AREA	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H019	*	H2 SENSOR PRIMARY VAPOR FLANGE LH2 STORAGE AREA	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H020	*	H2 SENSOR PRIMARY VAPOR FLANGE LH2 STORAGE AREA	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H021	*	H2 SENSOR PRIMARY VAPOR FLANGE LH2 STORAGE AREA	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H022	*	H2 SENSOR REDUNDANT VAPOR FLANGE LH2 STORAGE AREA	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H023	*	H2 SENSOR REDUNDANT VAPOR FLANGE LH2 STORAGE AREA	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H024	*	H2 SENSOR REDUNDANT VAPOR FLANGE LH2 STORAGE AREA	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H025	*	H2 SENSOR REDUNDANT VAPOR FLANGE LH2 STORAGE AREA	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H026	*	H2 SENSOR PRIMARY VAPOR OUTLET CHECK VALVE 3362 LH2 STORAGE	0/4 PCT	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H027	*	H2 SENSOR REDUNDANT VAPOR OUTLET CHECK VALVE A-3363 LH2 STORAGE	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H028	*	H2 SENSOR STORAGE TANK VENT RUPTURE DISC A-3421 LH2 STORAGE	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50H029	*	H2 SENSOR STORAGE TANK RELIEF VALVE A-3423 LH2 STORAGE AREA	0/4 PCT	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

***** MEAS. NO. * DISPLAY * MEASUREMENT DESCRIPTION * RANGE * RECORDER * DRAWING NO. * REMARKS * *****							
50H030		H2 SENSOR ABOVE PUMP OUTLET PORT INSTRUMENTATION CAB LH2	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3911	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50H031		H2 SENSOR VACUUM JACKETS LINE MECHANICAL JOINT LH2 CROSSCOUNTRY PIPE LINE BETWEEN FAC + BURNH PD.	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50H032		H2 SENSOR EXPANSION JOINT IN VENT LINE LH2 STORAGE AREA	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50H033		H2 SENSOR EXPANSION JOINT IN VENT LINE LH2 STORAGE AREA	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50H034		H2 SENSOR EXPANSION JOINT IN VENT LINE LH2 STORAGE AREA	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50H035		H2 SENSOR REDUNDANT VAPOR FLANGE LH2 STORAGE AREA	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3912	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50K001		H2 SENSOR EXPANSION JOINT IN VENT LINES BETWEEN POND + PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50K002		H2 SENSOR EXPANSION JOINT IN VENT LINES BETWEEN POND + PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50K003		H2 SENSOR EXPANSION JOINT IN VENT LINES NEAR POND + TEE PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50K004		H2 SENSOR FLEX HOSE IN FACILITY VENT LINES NEAR POND + TEE PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50K005		H2 SENSOR EXPANSION JOINT BETWEEN POND + TEE PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50K006		H2 SENSOR EXPANSION JOINT BETWEEN POND + TEE PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	
50K007		H2 SENSOR MECHANICAL JOINT IN V-J. LINE 50 FT SW OF TEE PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR	

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
50K006	*	H2 SENSOR EXPANSION JOINT IN VENT LINE LUT DISCONNECT PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K009	*	H2 SENSOR TOWER AND VENT LINE EXPANSION LOOP PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K010	*	H2 SENSOR VACUUM JACKET MECHANICAL JOINT IN H2 TRENCH PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K011	*	H2 SENSOR EXPANSION JOINT IN TRENCH PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K012	*	H2 SENSOR EXPANSION JOINT BASE OF DISC TOWER PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K013	*	H2 SENSOR EXPANSION JOINT TOP OF DISC TOWER PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K014	*	H2 SENSOR VACUUM JKT MECHANICAL JOINT AT LUT DISCONNECT PAD APRON	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K015	*	H2 SENSOR VENT FILL LINE AT BASE OF DISC TOWER PAD	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K016	*	H2 SENSOR TOP OF DISCONNECT TOWER PAD	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K017	*	H2 SENSOR BASE OF DISCONNECT TOWER PAD	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K018	*	H2 SENSOR TOP OF DISCONNECT TOWER + LUT PAD	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K019	*	H2 SENSOR PAD AREA 14 INCH VENT LINE PAD EXPAN LOOP EAST	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50K020	*	H2 SENSOR PAD AREA 14 INCH VENT LINE PAD EXPAN LOOP WEST	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3910*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50V002	*	H2 SENSOR INTERFACE TANK GH2 AREA MOBILE W/DRUM	0/4 PCT H2 CONCEN IN AIR	EVENT	PC1-3913*	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
50V003		H2 SENSOR HAND VALVE TANK 1 + 2	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		INLET WEST END MOB RECHR GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V004		H2 SENSOR WEST END OF TANK NO 2	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		MOB RECHR GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V005		H2 SENSOR HAND VALVE TANK 3 + 4	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		INLT WEST END MOB RECHR GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V006		H2 SENSOR HAND VALVE WEST END	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		TANK NO 4 MOB RECHR GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V007		H2 SENSOR HAND VALVE TANK 5 + 6	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		INLET WEST END MOB RECHR GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V008		H2 SENSOR WEST END TANK NO 6	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		AREA MOB RECHR	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V009		H2 SENSOR HAND VLV TANK 7 + 8	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		WEST END GH2 AREA MOB RECHR	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V010		H2 SENSOR WEST END TANK NO. 8	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		TANKS MOBILE RECHARGER GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V011		H2 SENSOR AUTOMATIC VALVE A30449	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		GH2 AREA MOB. RECHR	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V012		H2 SENSOR HAND VALVE LOT SUPPLY	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		LINE GH2 AREA MOB RECHR	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V013		H2 SENSOR VLV COMPLEY GH2 AREA	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		MOB RECHR GH2 SUPPLY LINE	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V014		H2 SENSOR REMOTE VALVE LH2	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		SUPPLY LINE GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V015		H2 SENSOR HAND VALVE RECHARGER	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		TO BATTERY INLT GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V016		H2 SENSOR HAND VALVE TANK 1 + 2	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		INLET EAST END GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V017		H2 SENSOR EAST END TANK NO. 2	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR
50V018		H2 SENSOR HAND VALVE TANK 3 + 4	0/4 PCT	EVENT	PCI-3913	ALARM LEVEL 1 PCT H2
		INLET EAST END GH2 AREA	H2 CONCEN IN AIR			CONCENTRATION IN AIR

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	R/N/G	RECORDER	DRAWING	REMARKS
REQ. NO.					NO.	
50V019	*	H2 SENSOR EAST END OF TANK NO. 4	0/4 PCT	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50V020	*	H2 SENSOR HAND VALVE TANK 5 + 6	0/4 PCT	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50V021	*	INLET EAST END LUT DISCONNECT	H2 CONCN IN AIR	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50V022	*	H2 SENSOR EAST END OF TANK NO. 6	0/4 PCT	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50V023	*	LUT DISCONNECT	H2 CONCN IN AIR	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
50V032	*	H2 SENSOR HAND VALVE TANK 7 + 8	0/4 PCT	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
51C015	*	INLET EAST END LUT DISCONNECT	H2 CONCN IN AIR	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
51C017	*	H2 SENSOR EAST END OF TANK NO. 8	0/4 PCT	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
51C018	*	LUT DISCONNECT	H2 CONCN IN AIR	EVENT	PC1-3913	ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
51C019	*	H2 SENSOR AIR INTAKE OF GH2 JOINT LUT	0/4 PCT	EVENT	PC1-3808	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C020	*	UV DETECTOR 60 FT LEVEL GH2 JOINT LUT	SEE REMARKS	EVENT	PC1-3807	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C021	*	UV DETECTOR 80 FT LEVEL GH2 JOINT LUT	SEE REMARKS	EVENT	PC1-3809	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C022	*	UV DETECTOR VENT LINE EXPANSION JOINTS 90 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C023	*	UV DETECTOR 100 FT LEVEL GH2 JOINTS LUT	SEE REMARKS	EVENT	PC1-3809	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C024	*	UV DETECTOR FLEX LINE ON SWING ARM NO 4 LUT	SEE REMARKS	EVENT	PC1-3807	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C025	*	UV DETECTOR 120 FT LEVEL GH2 JOINT LUT	SEE REMARKS	EVENT	PC1-3809	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C026	*	UV DETECTOR VENT LINE EXPANSION JOINT 120 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C027	*	UV DETECTOR 140 FT LEVEL GH2 JOINT LUT	SEE REMARKS	EVENT	PC1-3809	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C028	*	UV DETECTOR VENT LINE EXPANSION JOINT 140 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C029	*	UV DETECTOR 160 FT LEVEL GH2 JOINT LUT	SEE REMARKS	EVENT	PC1-3809	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT*	*DESCRIPTION*	*RANGE*	*RECORDED*	*DRAWING*	*REMARKS*
REG. NO.							
51C026	*	UV DETECTOR	VENT LINE EXPANSION	SEE REMARKS	EVENT	PC1-3807*	ALARM POINT 1 INCH FLAME
	*	JOINT	160 FT LEVEL LUT			PC1-3809*	WITHIN 10 FEET OF DET
51C027	*	UV DETECTOR	160 FT LEVEL GH2	SEE REMARKS	EVENT	PC1-3807*	ALARM POINT 1 INCH FLAME
	*	JOINT LUT				PC1-3810*	WITHIN 10 FEET OF DET
51C029	*	UV DETECTOR	200 FT LEVEL GH2	SEE REMARKS	EVENT	PC1-3807*	ALARM POINT 1 INCH FLAME
	*	JOINT LUT				PC1-3810*	WITHIN 10 FEET OF DET
51C030	*	UV DETECTOR	FLEX LINE SWING ARM	SEE REMARKS	EVENT	PC1-3807*	ALARM POINT 1 INCH FLAME
	*	NO 5 LUT				PC1-3810*	WITHIN 10 FEET OF DET
51C031	*	UV DETECTOR	220 FT LEVEL GH2	SEE REMARKS	EVENT	PC1-3807*	ALARM POINT 1 INCH FLAME
	*	JOINT LUT				PC1-3810*	WITHIN 10 FEET OF DET
51C032	*	UV DETECTOR	FLEX LINE SWING	SEE REMARKS	EVENT	PC1-3807*	ALARM POINT 1 INCH FLAME
	*	ARM NO 6 LUT				PC1-3810*	WITHIN 10 FEET OF DET
51C033	*	UV DETECTOR	240 FT LEVEL	SEE REMARKS	EVENT	PC1-3807*	ALARM POINT 1 INCH FLAME
	*	GH2 JOINT				PC1-3810*	WITHIN 10 FEET OF DET
51C034	*	UV DETECTOR	FLEX LINE SWING	SEE REMARKS	EVENT	PC1-3807*	ALARM POINT 1 INCH FLAME
	*	ARM NO 7 LUT				PC1-3810*	WITHIN 10 FEET OF DET
51C039	*	TW DETECTOR	DISCONNECT TOWER	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
	*	LUT INTERFACE				PC1-3808*	ON SENSOR WILL ALARM
51C040	*	TW DETECTOR	40 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
	*					PC1-3808*	ON SENSOR WILL ALARM
51C041	*	TW DETECTOR	60 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
	*					PC1-3808*	ON SENSOR WILL ALARM
51C042	*	TW DETECTOR	60 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
	*					PC1-3808*	ON SENSOR WILL ALARM
51C043	*	TW DETECTOR	100 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
	*					PC1-3808*	ON SENSOR WILL ALARM
51C044	*	TW DETECTOR	120 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
	*					PC1-3808*	ON SENSOR WILL ALARM
51C045	*	TW DETECTOR	140 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
	*					PC1-3808*	ON SENSOR WILL ALARM
51C046	*	TW DETECTOR	160 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
	*					PC1-3808*	ON SENSOR WILL ALARM

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
51C047		TW DETECTOR 180 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
51C048		TW DETECTOR 200 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3810*	ON SENSOR WILL ALARM
51C049		TW DETECTOR 220 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3807*	TEMP RISE TO 450 DEG F
51C050		TW DETECTOR 240 FT LEVEL LUT	SEE REMARKS	EVENT	PC1-3810*	ON SENSOR WILL ALARM
51H001		UV DETECTOR PRIMARY VAPOR AREA LH2 AREA VIEW VAPOR AND FILL	1900/2900 A 4 DETECTORS	EVENT	PC1-3911*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H002		UV DETECTOR REDUNDANT VAPOR AREA LH2 AREA	1900/2900 A 4 DETECTORS	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H003		UV DETECTOR VAPOR SUPPLY VALVES LH2 AREA	1900/2900 A	EVENT	PC1-3911*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H004		UV DETECTOR VIEW VALVES LH2 AREA	1900/2900 A	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H005		UV DETECTOR FACILITY VENT EXPANSION LOOP AREA LH2 AREA	1900/2900 A	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H006		UV DETECTOR PRIMARY VAPOR AREA LH2 AREA VIEW VAPOR + FILL	1900/2900 A 4 DETECTORS	EVENT	PC1-3911*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H007		UV DETECTOR REDUNDANT VAPOR AREA LH2 AREA	1900/2900 A 4 DETECTORS	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H008		UV DETECTOR VAPOR SUPPLY VALVES LH2 AREA	1900/2900 A	EVENT	PC1-3911*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H009		UV DETECTOR VAPOR SUPPLY VALVES LH2	1900/2900 A	EVENT	PC1-3911*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H010		UV DETECTOR VIEW VALVES LH2 AREA	1900/2900 A	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H011		UV DETECTOR VIEW VALVES LH2 AREA	1900/2900 A	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDFR*	*DRAWING NO.*	*REMARKS*
51H012		UV DETECTOR VIEW VALVES LH2 AREA	1900/2900 A	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H013		UV DETECTOR FACILITY VENT EXPANSION LOOP AREA LH2 AREA	1900/2900 A	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51H014		UV DETECTOR FACILITY VENT EXPANSION LOOP AREA LH2 AREA	1900/2900 A	EVENT	PC1-3912*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K001		UV DETECTOR ML VENT EXPANSION LOOP AREA PAD	1900/2900 A 2 DETECTORS	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K002		UV DETECTOR VJ MECHANICAL JOINT PAD	1900/2900 A 2 DETECTORS	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K003		UV DETECTOR BURN POND EXPAN JOINT AREA PAD	1900/2900 A	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K004		UV DETECTOR ENTRANCE TO H2 TRENCH PAD	1900/2900 A 2 DETECTORS	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K005		UV DETECTOR ENTRANCE TO H2 TRENCH PAD	1900/2900 A 2 DETECTORS	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K006		UV DETECTOR BURN POND PAD	1900/2900 A	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K007		UV DETECTOR ML DISCONNECT AREA PAD	1900/2900 A 2 DETECTORS	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K008		UV DETECTOR GH2 FILL LINE AND AND DISCONNECT TOWER BASE PAD	1900/2900 A	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K009		UV DETECTOR DISCONNECT TOWER TOP PAD	1900/2900 A	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K011		UV DETECTOR DISC TOWER BASE EAST SIDE PAD	1900/2900 A	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K015		UV DETECTOR ELBOW ON FILL LINE TO DISCONNECT PAD	1900/2900 A	EVENT	PC1-3910*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51K016		UV DETECTOR GH2 FILL LINE AND DISCONNECT	SEE REMARKS	EVENT	PC1-3910*	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	REORDER	DRAWING NO.	REMARKS
51K017	*	TW DETECTOR TOP DISCONNECT TOWER	SEE REMARKS	EVENT	PC1-3910*	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51K018	*	TW DETECTOR TOP DISCONNECT TOWER	SEE REMARKS	EVENT	PC1-3910*	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51K019	*	TW DETECTOR TOP OF DISCONNECT TOWER	SEE REMARKS	EVENT	PC1-3910*	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V001	*	UV DETECTOR INTERFACE STORAGE TANKS GH2 AREA	1900/2900 A	EVENT	PC1-3913*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51V002	*	UV DETECTOR EAST WALL BETWEEN TANKS 6 AND 8 GH2 AREA	1900/2900 A	EVENT	PC1-3913*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51V003	*	UV DETECTOR EAST WALL BETWEEN TANKS 4 AND 6 GH2 AREA	1900/2900 A	EVENT	PC1-3913*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51V004	*	UV DETECTOR EAST WALL BETWEEN TANKS 2 AND 4 GH2 AREA	1900/2900 A	EVENT	PC1-3913*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51V005	*	UV DETECTOR WEST END FACING TANKS 8 AND 6 GH2 AREA	1900/2900 A	EVENT	PC1-3913*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51V006	*	UV DETECTOR WEST END FACING TANKS 4 AND 2 GH2 AREA	1900/2900 A	EVENT	PC1-3913*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51V007	*	UV DETECTOR SOUTH WALL VIEWING VENT AND LUT SUPPLY GH2 AREA	1900/2900 A	EVENT	PC1-3913*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51V008	*	UV DETECTOR WEST WALL VIEWING LH2 AREA VALVES, GH2 AREA	1900/2900 A	EVENT	PC1-3913*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51V010	*	TW DETECTOR INTERFACE STORAGE TANKS MOBILE RECHARGER GH2 AREA	SEE REMARKS	EVENT	PC1-3913*	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V011	*	TW DETECTOR WEST END OF TANK NO 1 GH2 AREA	SEE REMARKS	EVENT	PC1-3913*	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V012	*	TW DETECTOR WEST END OF TANK NO 2 GH2 AREA	SEE REMARKS	EVENT	PC1-3913*	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V013	*	TW DETECTOR WEST END OF TANK NO 3 GH2 AREA	SEE REMARKS	EVENT	PC1-3913*	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORD*	*DRAWING NO.*	*REMARKS*
REQ. NO.						
51V014	*	TW DETECTOR WEST END OF TANK NO 4 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V015	*	TW DETECTOR WEST END OF TANK NO 5 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V016	*	TW DETECTOR WEST END OF TANK NO 6 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V017	*	TW DETECTOR WEST END OF TANK NO 7 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V018	*	TW DETECTOR WEST END OF TANK NO 8 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V019	*	TW DETECTOR ELBOW SOUTH WALL GH2 AREA ON LUT LINE	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V020	*	TW DETECTOR VALVE COMPLEX LH2 SUPPLY LINE GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V021	*	TW DETECTOR HAND VALVE RECHARGER TO BATT INLET GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V022	*	TW DETECTOR EAST END OF TANK NO 1 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V023	*	TW DETECTOR EAST END OF TANK NO 2 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V024	*	TW DETECTOR EAST END OF TANK NO 3 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V025	*	TW DETECTOR EAST END OF TANK NO 4 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V026	*	TW DETECTOR EAST END OF TANK NO 5 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V027	*	TW DETECTOR EAST END OF TANK NO 6 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V028	*	TW DETECTOR EAST END OF TANK NO 7 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM
51V029	*	TW DETECTOR EAST END OF TANK NO 8 GH2 AREA	SEE REMARKS	EVENT	PC1-3913	TEMP RISE TO 450 DEG F ON SENSOR WILL ALARM

DATE 10 JAN 72

PAGE 44

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
55C001	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C001	ON/OFF	EVENT	*	*
55C002	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C002	ON/OFF	EVENT	*	*
55C003	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C003	ON/OFF	EVENT	*	*
55C004	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C004	ON/OFF	EVENT	*	*
55C005	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C005	ON/OFF	EVENT	*	*
55C006	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C006	ON/OFF	EVENT	*	*
55C007	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C007	ON/OFF	EVENT	*	*
55C008	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C008	ON/OFF	EVENT	*	*
55C009	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C009	ON/OFF	EVENT	*	*
55C010	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C010	ON/OFF	EVENT	*	*
55C011	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C011	ON/OFF	EVENT	*	*
55C012	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C012	ON/OFF	EVENT	*	*
55C013	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C013	ON/OFF	EVENT	*	*
55C014	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C014	ON/OFF	EVENT	*	*
55C015	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C015	ON/OFF	EVENT	*	*
55C016	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C016	ON/OFF	EVENT	*	*

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
55C017	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C017	ON/OFF	EVENT	*	*
55C018	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C018	ON/OFF	EVENT	*	*
55C019	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C019	ON/OFF	EVENT	*	*
55C020	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C020	ON/OFF	EVENT	*	*
55C021	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C021	ON/OFF	EVENT	*	*
55C022	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C022	ON/OFF	EVENT	*	*
55C023	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C023	ON/OFF	EVENT	*	*
55C024	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C024	ON/OFF	EVENT	*	*
55C025	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C025	ON/OFF	EVENT	*	*
55C026	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C026	ON/OFF	EVENT	*	*
55C027	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C027	ON/OFF	EVENT	*	*
55C028	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C028	ON/OFF	EVENT	*	*
55C029	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C029	ON/OFF	EVENT	*	*
55C030	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C030	ON/OFF	EVENT	*	*
55C031	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C031	ON/OFF	EVENT	*	*
55C032	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C032	ON/OFF	EVENT	*	*

DATE 10 JAN 72

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
*****	*****	*****	*****	*****	*****	*****
55C033	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C033	ON/OFF	*****	*****	*****
55C034	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C034	ON/OFF	*****	*****	*****
55C035	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C035	ON/OFF	*****	*****	*****
55C036	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C036	ON/OFF	*****	*****	*****
55C037	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C037	ON/OFF	*****	*****	*****
55C038	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C038	ON/OFF	*****	*****	*****
55C039	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C039	ON/OFF	*****	*****	*****
55C040	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C040	ON/OFF	*****	*****	*****
55C041	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C041	ON/OFF	*****	*****	*****
55C042	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C042	ON/OFF	*****	*****	*****
55C043	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C043	ON/OFF	*****	*****	*****
55C044	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C044	ON/OFF	*****	*****	*****
55C045	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C045	ON/OFF	*****	*****	*****
55C046	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C046	ON/OFF	*****	*****	*****
55C047	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C047	ON/OFF	*****	*****	*****
55C048	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C048	ON/OFF	*****	*****	*****
*****	*****	*****	*****	*****	*****	*****

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
*****	*****	*****	*****	*****	*****	*****
55C049		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50C049	ON/OFF	EVENT		
55C050		SIGNAL CONFIDENCE CIRCUIT FOR MONITOR TRAILER	ON/OFF	EVENT		ALARM LEVEL 1 PCT H2 CONCENTRATION IN AIR
51C001		UV DETECTOR VERT LINE EXPANSION JOINT LUT 0 FT LEVEL	SEE REMARKS	EVENT	PCI-3807* PCI-3808*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C002		UV DETECTOR VERT LINE EXPANSION JOINT LUT 200 FT LEVEL	SEE REMARKS	EVENT	PCI-3807* PCI-3808*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C003		UV DETECTOR VALVE COMPLEX AREA LUT	SEE REMARKS	EVENT	PCI-3807* PCI-3809*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C004		UV DETECTOR HEAT EXCHANGE AREA LUT	SEE REMARKS	EVENT	PCI-3807* PCI-3808*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C005		UV DETECTOR LIQUID LINE INTERFACE SWING ARM NO 4	SEE REMARKS	EVENT	PCI-3807* PCI-3812*	ALARM POINT 1 INCH FLAME WITHIN 5 FEET OF DET
51C006		UV DETECTOR VENT LINE INTERFACE LUT SWING ARM NO 5	SEE REMARKS	EVENT	PCI-3807* PCI-3812*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C007		UV DETECTOR VALVE COMPLEX AREA LUT ALL VALVES	SEE REMARKS	EVENT	PCI-3807* PCI-3812*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C008		UV DETECTOR HEAT EXCHANGE AREA LUT	SEE REMARKS	EVENT	PCI-3807* PCI-3810*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C009		UV DETECTOR LIQUID LINE INTERFACE LUT SWING ARM NO 6	SEE REMARKS	EVENT	PCI-3807* PCI-3807*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C010		UV DETECTOR VENT LINE INTERFACE LUT SWING ARM NO 7	SEE REMARKS	EVENT	PCI-3807* PCI-3812*	ALARM POINT 1 INCH FLAME WITHIN 5 FEET OF DET
51C011		UV DETECTOR DISC TOWER + LUT INTERFACE LUT	SEE REMARKS	EVENT	PCI-3807* PCI-3812*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C012		UV DETECTOR BOTTOM EXPANSION JOINTS ON VENT LINE LUT	SEE REMARKS	EVENT	PCI-3807* PCI-3812*	ALARM POINT 1 INCH FLAME WITHIN 10 FEET OF DET
51C013		UV DETECTOR 40 FT LEVEL GH2 MEASUREMENT NO. 50C050	SEE REMARKS	EVENT	PCI-3807*	
*****	*****	*****	*****	*****	*****	*****

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
REQ. NO.						
55H001		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H001	ON/OFF	EVENT		
55H002		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H002	ON/OFF	EVENT		
55H003		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H003	ON/OFF	EVENT		
55H004		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H004	ON/OFF	EVENT		
55H005		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H005	ON/OFF	EVENT		
55H006		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H006	ON/OFF	EVENT		
55H007		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H007	ON/OFF	EVENT		
55H008		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H008	ON/OFF	EVENT		
55H009		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H009	ON/OFF	EVENT		
55H010		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H010	ON/OFF	EVENT		
55H011		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H011	ON/OFF	EVENT		
55H012		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H012	ON/OFF	EVENT		
55H013		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H013	ON/OFF	EVENT		
55H014		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H014	ON/OFF	EVENT		
55H015		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H015	ON/OFF	EVENT		
55H016		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H016	ON/OFF	EVENT		

IRONMENTAL MEAS-
AS-511 LC-39

DATE 10 JAN 72

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
55H033	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H033	ON/OFF	EVENT		
55H034	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H034	ON/OFF	EVENT		
55H035	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50H035	ON/OFF	EVENT		
55K001	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K001	ON/OFF	EVENT		
55K002	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K002	ON/OFF	EVENT		
55K003	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K003	ON/OFF	EVENT		
55K004	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K004	ON/OFF	EVENT		
55K005	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K005	ON/OFF	EVENT		
55K006	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K006	ON/OFF	EVENT		
55K007	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K007	ON/OFF	EVENT		
55K008	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K008	ON/OFF	EVENT		
55K009	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K009	ON/OFF	EVENT		
55K010	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K010	ON/OFF	EVENT		
55K011	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K011	ON/OFF	EVENT		
55K012	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K012	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM

AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORD	DRAWING NO.	REMARKS
55K013	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K013	ON/OFF	EVENT		
55K014	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K014	ON/OFF	EVENT		
55K015	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K015	ON/OFF	EVENT		
55K016	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K016	ON/OFF	EVENT		
55K017	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K017	ON/OFF	EVENT		
55K018	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K018	ON/OFF	EVENT		
55K019	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K019	ON/OFF	EVENT		
55K020	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50K020	ON/OFF	EVENT		
55V002	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V002	ON/OFF	EVENT		
55V003	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V003	ON/OFF	EVENT		
55V004	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V004	ON/OFF	EVENT		
55V005	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V005	ON/OFF	EVENT		
55V006	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V006	ON/OFF	EVENT		
55V007	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V007	ON/OFF	EVENT		
55V008	*	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V008	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
55V009		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V009	ON/OFF	EVENT		
55V010		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V010	ON/OFF	EVENT		
55V011		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V011	ON/OFF	EVENT		
55V012		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V012	ON/OFF	EVENT		
55V013		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V013	ON/OFF	EVENT		
55V014		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V014	ON/OFF	EVENT		
55V015		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V015	ON/OFF	EVENT		
55V016		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V016	ON/OFF	EVENT		
55V017		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V017	ON/OFF	EVENT		
55V018		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V018	ON/OFF	EVENT		
55V019		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V019	ON/OFF	EVENT		
55V020		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V020	ON/OFF	EVENT		
55V021		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V021	ON/OFF	EVENT		
55V022		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V022	ON/OFF	EVENT		
55V023		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V023	ON/OFF	EVENT		
55V032		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 50V032	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
56C001		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C001	ON/OFF	EVENT		
56C002		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C002	ON/OFF	EVENT		
56C003		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C003	ON/OFF	EVENT		
56C004		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C004	ON/OFF	EVENT		
56C005		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C005	ON/OFF	EVENT		
56C006		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C006	ON/OFF	EVENT		
56C007		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C007	ON/OFF	EVENT		
56C008		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C008	ON/OFF	EVENT		
56C009		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C009	ON/OFF	EVENT		
56C010		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C010	ON/OFF	EVENT		
56C011		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C011	ON/OFF	EVENT		
56C012		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C012	ON/OFF	EVENT		
56C013		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C013	ON/OFF	EVENT		
56C015		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C015	ON/OFF	EVENT		
56C017		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C017	ON/OFF	EVENT		
56C018		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C018	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORD#	DRAWING NO.	REMARKS
*****	*****	*****	*****	*****	*****	*****
56C019	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C019	ON/OFF	*****	*****	*****
56C020	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C020	ON/OFF	*****	*****	*****
56C021	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C021	ON/OFF	*****	*****	*****
56C022	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C022	ON/OFF	*****	*****	*****
56C023	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C023	ON/OFF	*****	*****	*****
56C024	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C024	ON/OFF	*****	*****	*****
56C025	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C025	ON/OFF	*****	*****	*****
56C026	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C026	ON/OFF	*****	*****	*****
56C027	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C027	ON/OFF	*****	*****	*****
56C029	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C029	ON/OFF	*****	*****	*****
56C030	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C030	ON/OFF	*****	*****	*****
56C031	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C031	ON/OFF	*****	*****	*****
56C032	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C032	ON/OFF	*****	*****	*****
56C033	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C033	ON/OFF	*****	*****	*****
56C034	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C034	ON/OFF	*****	*****	*****
56C039	*****	SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C039	ON/OFF	*****	*****	*****
*****	*****	*****	*****	*****	*****	*****

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
56C040		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C040	ON/OFF	EVENT		
56C041		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C041	ON/OFF	EVENT		
56C042		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C042	ON/OFF	EVENT		
56C043		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C043	ON/OFF	EVENT		
56C044		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C044	ON/OFF	EVENT		
56C045		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C045	ON/OFF	EVENT		
56C046		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C046	ON/OFF	EVENT		
56C047		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C047	ON/OFF	EVENT		
56C048		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C048	ON/OFF	EVENT		
56C049		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C049	ON/OFF	EVENT		
56C050		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51C050	ON/OFF	EVENT		
56H001		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H001	ON/OFF	EVENT		
56H002		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H002	ON/OFF	EVENT		
56H003		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H003	ON/OFF	EVENT		
56H004		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H004	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORD	DRAWING NO.	REMARKS
56H005		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H005	ON/OFF	EVENT		
56H006		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H006	ON/OFF	EVENT		
56H007		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H007	ON/OFF	EVENT		
56H008		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H008	ON/OFF	EVENT		
56H009		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H009	ON/OFF	EVENT		
56H010		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H010	ON/OFF	EVENT		
56H011		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H011	ON/OFF	EVENT		
56H012		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H012	ON/OFF	EVENT		
56H013		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H013	ON/OFF	EVENT		
56H014		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51H014	ON/OFF	EVENT		
56K001		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K001	ON/OFF	EVENT		
56K002		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K002	ON/OFF	EVENT		
56K003		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K003	ON/OFF	EVENT		
56K004		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K004	ON/OFF	EVENT		
56K005		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K005	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM
AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
56K006		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K006	ON/OFF	EVENT		
56K007		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K007	ON/OFF	EVENT		
56K008		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K008	ON/OFF	EVENT		
56K009		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K009	ON/OFF	EVENT		
56K011		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K011	ON/OFF	EVENT		
56K015		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K015	ON/OFF	EVENT		
56K016		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K016	ON/OFF	EVENT		
56K017		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K017	ON/OFF	EVENT		
56K018		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K018	ON/OFF	EVENT		
56K019		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51K019	ON/OFF	EVENT		
56V001		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V001	ON/OFF	EVENT		
56V002		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V002	ON/OFF	EVENT		
56V003		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V003	ON/OFF	EVENT		
56V004		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V004	ON/OFF	EVENT		
56V005		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V005	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
REQ. NO.						
56V006		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V006	ON/OFF	EVENT		
56V007		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V007	ON/OFF	EVENT		
56V008		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V008	ON/OFF	EVENT		
56V010		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V010	ON/OFF	EVENT		
56V011		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V011	ON/OFF	EVENT		
56V012		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V012	ON/OFF	EVENT		
56V013		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V013	ON/OFF	EVENT		
56V014		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V014	ON/OFF	EVENT		
56V015		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V015	ON/OFF	EVENT		
56V016		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V016	ON/OFF	EVENT		
56V017		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V017	ON/OFF	EVENT		
56V018		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V018	ON/OFF	EVENT		
56V019		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V019	ON/OFF	EVENT		
56V020		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V020	ON/OFF	EVENT		
56V021		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V021	ON/OFF	EVENT		
56V022		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V022	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
56V023		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V023	ON/OFF	EVENT		
56V024		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V024	ON/OFF	EVENT		
56V025		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V025	ON/OFF	EVENT		
56V026		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V026	ON/OFF	EVENT		
56V027		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V027	ON/OFF	EVENT		
56V028		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V028	ON/OFF	EVENT		
56V029		SIGNAL CONFIDENCE CIRCUIT FOR MEASUREMENT NO. 51V029	ON/OFF	EVENT		

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
S17-118	12723	STRAIN STATION 790 BETWEEN FIN A AND B VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-118
S18-118	12724	STRAIN STATION 790 BETWEEN FIN A AND B VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-119
S19-118	12725	STRAIN STATION 790 BETWEEN FIN A AND B VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-120
S20-118	12726	STRAIN STATION 790 BETWEEN FIN A AND B VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-121
S21-118	12727	STRAIN STATION 790 BETWEEN FIN B AND C VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-122
S22-118	12730	STRAIN STATION 790 BETWEEN FIN B AND C VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-123
S23-118	12731	STRAIN STATION 790 BETWEEN FIN B AND C VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-124
S24-118	12732	STRAIN STATION 790 BETWEEN FIN B AND C VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-125
S25-118	12733	STRAIN STATION 790 BETWEEN FIN C AND D VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-126
S26-118	12734	STRAIN STATION 790 BETWEEN FIN C AND D VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-127
S27-118	12735	STRAIN STATION 790 BETWEEN FIN C AND D VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-128
S28-118	12736	STRAIN STATION 790 BETWEEN FIN C AND D VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-129
S29-118	12737	STRAIN STATION 790 BETWEEN FIN D AND A VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-130
S30-118	12740	STRAIN STATION 790 BETWEEN FIN D AND A VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-131
S31-118	12741	STRAIN STATION 790 BETWEEN FIN D AND A VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-132
S32-118	12742	STRAIN STATION 790 BETWEEN FIN D AND A VEHICLE SIC STAGE	+1000 UI/I	UAS + SC		API-A0-133

These measurements are monitored by the F&E system during vehicle rollout or feedback operation. They are switched to the Ground DAS system prior to FRT.

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	DISPLAY	MEASUREMENT DESCRIPTION	RANGE	RECORDER	DRAWING NO.	REMARKS
FR-001	1312*	FLOW ECS AIR/GN2 TO SIC AFT	LPS/MIN.	*	2A014 - 12A007	
FR-002	1313*	FLOW ECS AIR/GN2 TO SIC FWD LWR	LPS/MIN.	*	2A015 - 12A008	
FR-003	1314*	FLOW ECS AIR/GN2 TO SIC AFT	LPS/MIN.	*	2A017 - 12A016	
FR-004	1315*	FLOW ECS AIR/GN2 TO SIC AFT ELEC	LBS/MIN.	*	2A018 - 12A010	
FR-005	1316*	FLOW ECS AIR/GN2 TO SIC FWD	LBS/MIN.	*	2A019 - 12A011	
FR-006	1317*	FLOW ECS AIR/GN2 TO SIC AFT	LES/MIN.	*	2A020 - 12A012	
FR-007	1320*	FLOW ECS AIR/GN2 TO INST. UNIT	LBS/MIN.	*	2A021 - 12A013	
FR-008	1321*	FLOW ECS AIR/GN2 TO SERV. MOD	LBS/MIN.	*	2A022 - 12A014	
FR-009	1322*	FLOW ECS AIR/GN2 TO COMM. MOD	LPS/MIN.	*	2A023 - 12A015	
FR-010	1323*	FLOW ECS AIR/GN2 TO SIC FWD UPR	LBS/MIN.	*	2A016 - 12A009	

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

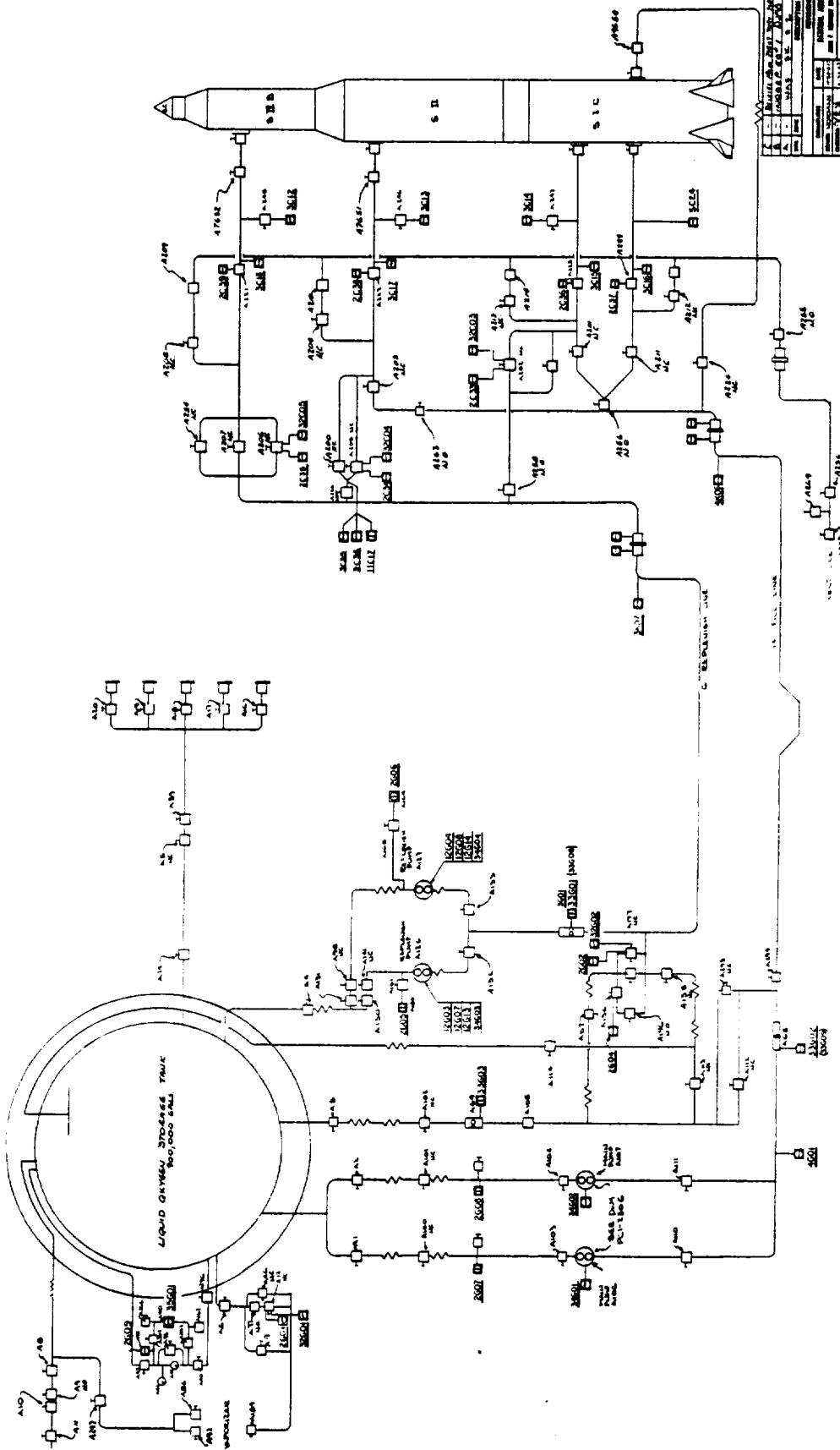
MEAS. NO.	*DISPLAY* *REQ. NO.*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
39X016	14135*	ELECTRIC FIELD INTENSITY SITE 1, CAMERA SITE 10	+ -15 KV/M	DAS	PC1-5159*	FF1-A01-01
39X017	14136*	ELECTRIC FIELD INTENSITY SITE 2, WEATHER TOWER 11	+ -15 KV/M	DAS	PC1-5159*	FF2-A01-01
39X018	14137*	ELECTRIC FIELD INTENSITY SITE 3, WEATHER TOWER 12	+ -15 KV/M	DAS	PC1-5159*	FF3-A01-01
39X019	14141*	ELECTRIC FIELD INTENSITY SITE 4, CAMERA SITE 9	+ -15 KV/M	DAS	PC1-5159*	FF1-A02-02
39X020	14142*	ELECTRIC FIELD INTENSITY SITE 5, WEATHER TOWER 10	+ -15 KV/M	DAS	PC1-5159*	FF2-A02-02
39X021	14143*	ELECTRIC FIELD INTENSITY SITE 6, CAMERA SITE 5	+ -15 KV/M	DAS	PC1-5159*	FF3-A02-02
39X022	14145*	ELECTRIC FIELD INTENSITY SITE 7, CAMERA SITE 13	+ -15 KV/M	DAS	PC1-5159*	FF1-A03-03
39X023	14146*	ELECTRIC FIELD INTENSITY SITE 8, CAMERA SITE 4	+ -15 KV/M	DAS	PC1-5159*	FF2-A03-03
39X024	14147*	ELECTRIC FIELD INTENSITY SITE 9, CAMERA SITE 7	+ -15 KV/M	DAS	PC1-5159*	FF3-A03-03
39X025	14151*	ELECTRIC FIELD INTENSITY SITE 10, CAMERA SITE 14	+ -15 KV/M	DAS	PC1-5159*	FF1-A04-04
39X026	14152*	ELECTRIC FIELD INTENSITY SITE 11, WEATHER TOWER 8	+ -15 KV/M	DAS	PC1-5159*	FF2-A04-04
39X027	14153*	ELECTRIC FIELD INTENSITY SITE 12, WEATHER TOWER 7	+ -15 KV/M	DAS	PC1-5159*	FF3-A04-04
39X028	14155*	ELECTRIC FIELD INTENSITY SITE 13, CAMERA SITE 12	+ -15 KV/M	DAS	PC1-5159*	FF1-A05-05
39X029	14156*	ELECTRIC FIELD INTENSITY SITE 14, CAMERA SITE 15	+ -15 KV/M	DAS	PC1-5159*	FF2-A05-05
39X030	14157*	ELECTRIC FIELD INTENSITY SITE 15, UDOP TRANSMITTER	+ -15 KV/M	DAS	PC1-5159*	FF3-A05-05
39X031	14161*	ELECTRIC FIELD INTENSITY SITE 16, CAMERA SITE 3	+ -15 KV/M	DAS	PC1-5159*	FF1-A06-06

FACILITIES AND ENVIRONMENTAL MEASUREMENTS PROGRAM AS-511 LC-39

MEAS. NO.	*DISPLAY*	*MEASUREMENT DESCRIPTION*	*RANGE*	*RECORDER*	*DRAWING NO.*	*REMARKS*
39X032	14162*	ELECTRIC FIELD INTENSITY SITE 17, WEATHER TOWER 6	+15 KV/M	DAS	PC1-5159*	FF2-A06-06
39X033	14163*	ELECTRIC FIELD INTENSITY SITE 18, FREQUENCY CONTROL	+15 KV/M	DAS	PC1-5159*	FF3-A06-06
39X034	14165*	ELECTRIC FIELD INTENSITY SITE 19, WEATHER TOWER 1	+15 KV/M	DAS	PC1-5159*	FF1-A07-07
39X035	14166*	ELECTRIC FIELD INTENSITY SITE 20, CIF FIELD ANTENNA	+15 KV/M	DAS	PC1-5159*	FF2-A07-07
39X036	14167*	ELECTRIC FIELD INTENSITY SITE 21, CAMERA SITE 2	+15 KV/M	DAS	PC1-5159*	FF3-A07-07
39X037	14171*	ELECTRIC FIELD INTENSITY SITE 22, UNIFIED S BAND SITE	+15 KV/M	DAS	PC1-5159*	FF1-A08-08
39X038	14172*	ELECTRIC FIELD INTENSITY SITE 23, CAMERA SITE 1	+15 KV/M	DAS	PC1-5159*	FF2-A08-08
39X039	14173*	ELECTRIC FIELD INTENSITY SITE 24, WEATHER TOWER 5	+15 KV/M	DAS	PC1-5159*	FF3-A08-08
39X040	14175*	ELECTRIC FIELD INTENSITY SITE 25, TPO-18 RADAR SITE	+15 KV/M	DAS	PC1-5159*	FF1-A09-09

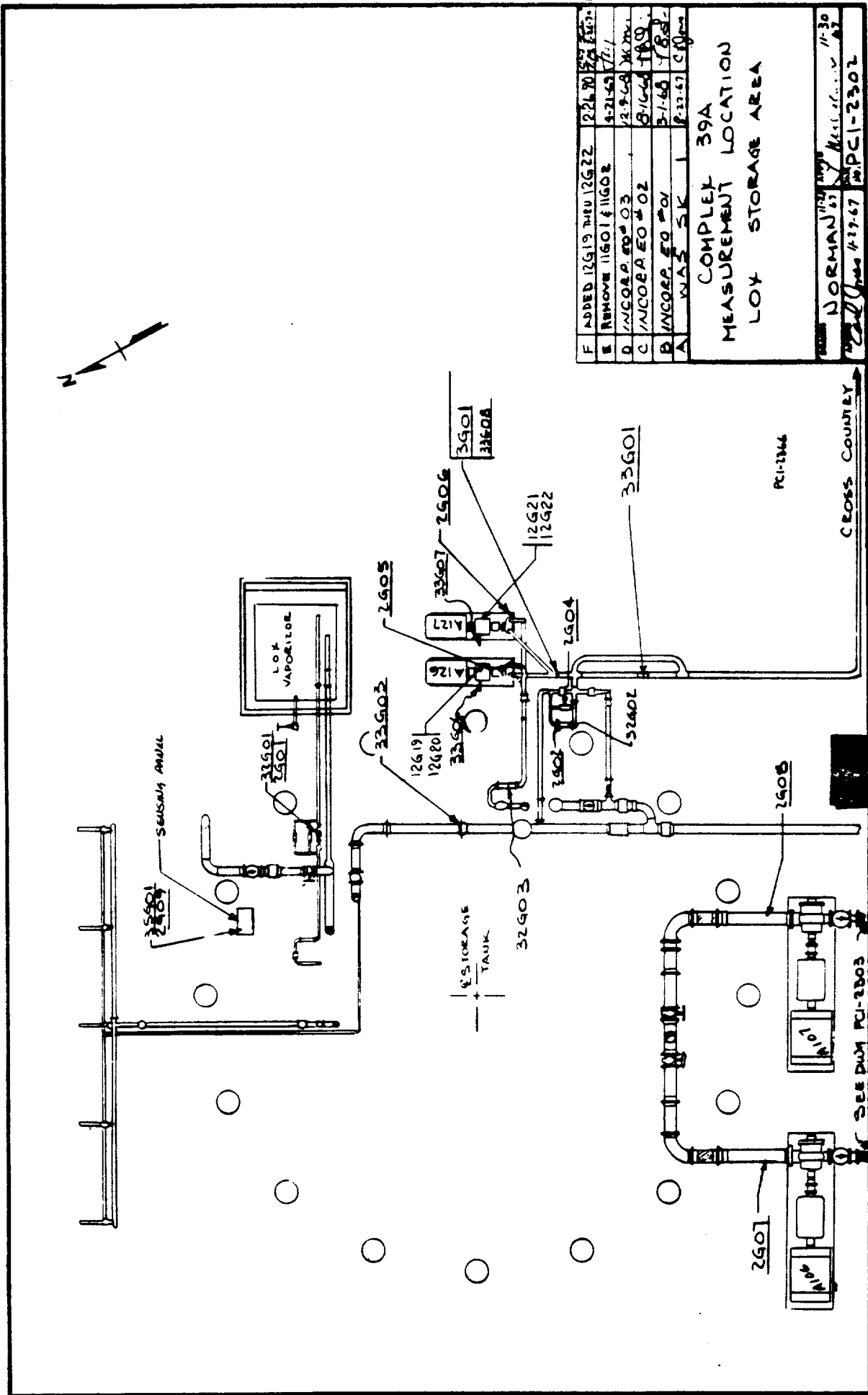
DRAWING INDEX

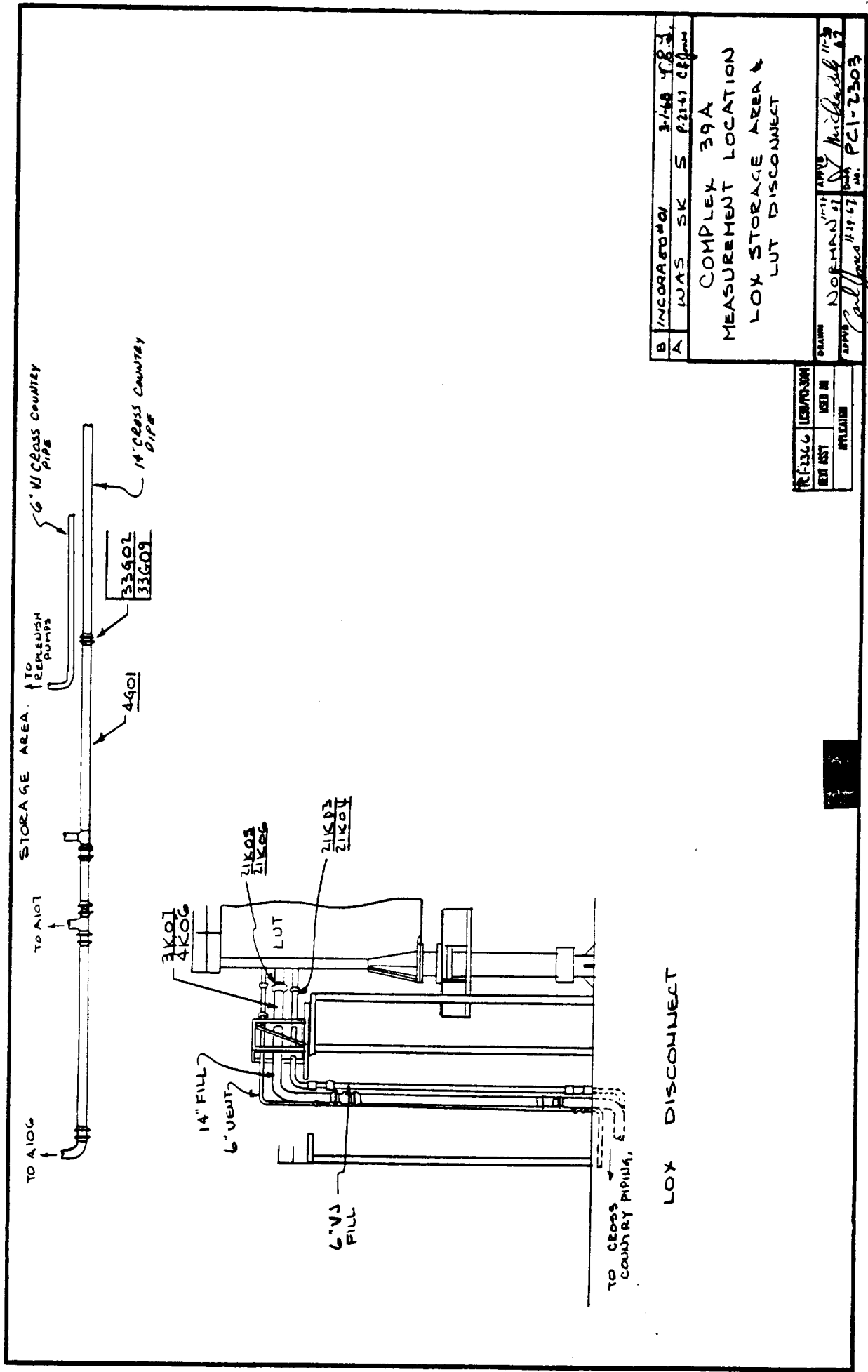
<u>Drawing No.</u>	<u>Drawing No.</u>	<u>Drawing No.</u>
2301	2343	2533
2302	2344	2534
2303	2345	2535
2306	2352	2536
2308	2504	2549
2309	2505	2551
2310	2512	2553
2311	2513	2639
2314	2518	2871
2315	2520	
2316	2529	3670
2317	2531	3807
2341	2532	3808
		3809
		3810
		3811
		3812
		3910
		3911
		3912
		3913
		4004



PC-1-2501	
DATE	10/1/68
BY	J. H. HARRIS
TELESCOPE LOCATIONS	
LC-39A	
LOX SYSTEM	
REVISIONS	
NO.	DESCRIPTION
1	INITIAL DESIGN
2	REVISION
3	REVISION
4	REVISION
5	REVISION
6	REVISION
7	REVISION
8	REVISION
9	REVISION
10	REVISION
11	REVISION
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100	REVISION

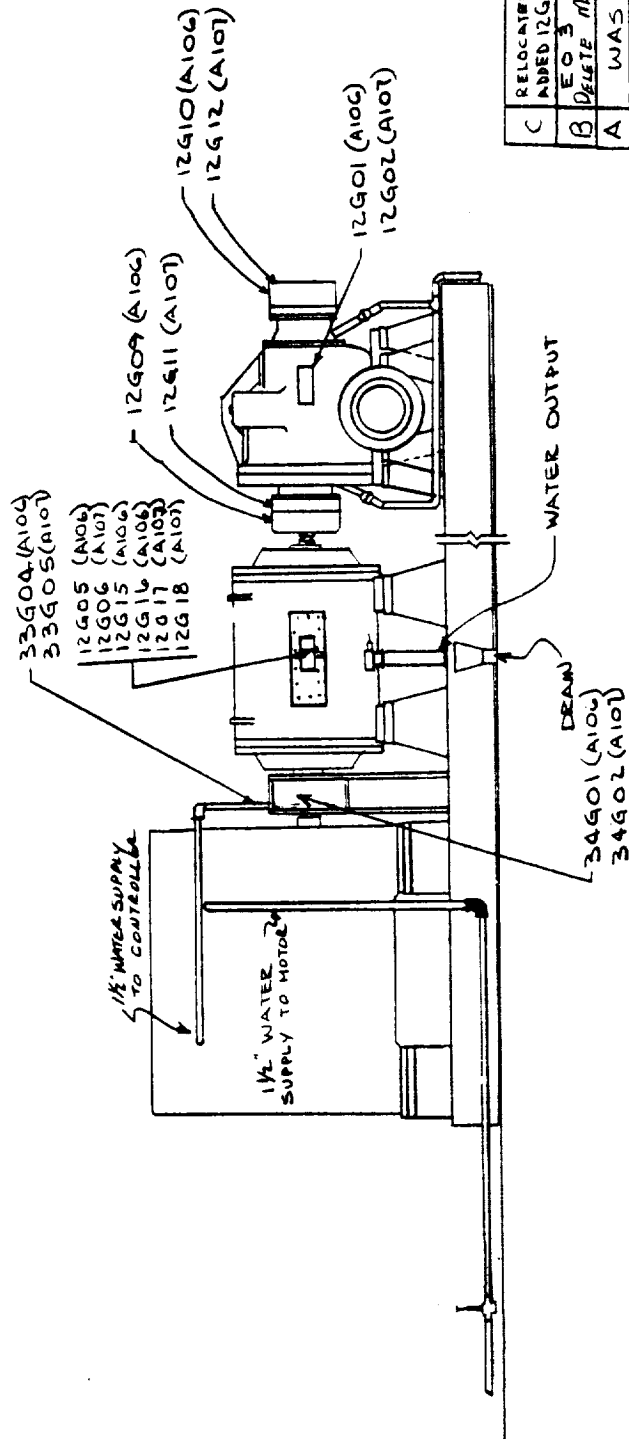
100000 GAL. LOX STORAGE TANK
PC-1-2501, 100000 GAL. LOX STORAGE TANK
PC-1-2501, 100000 GAL. LOX STORAGE TANK





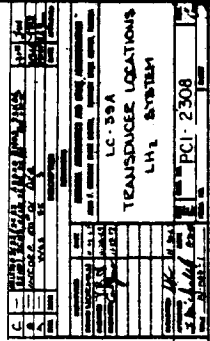
B	INCORPORATED	3/14/80	Y.B.S.
A	WAS SK S	P2147	CEP
COMPLEX 39A			
MEASUREMENT LOCATION			
LOX STORAGE AREA &			
LUT DISCONNECT			
DRAWN			
BY	NORMAN	11/11/81	AWB
CHKD	Califano	11/11/81	AWB
PC1-2303			

REF	2306	LOG	70-304
EST	AST	USE	IN
APPROVAL			

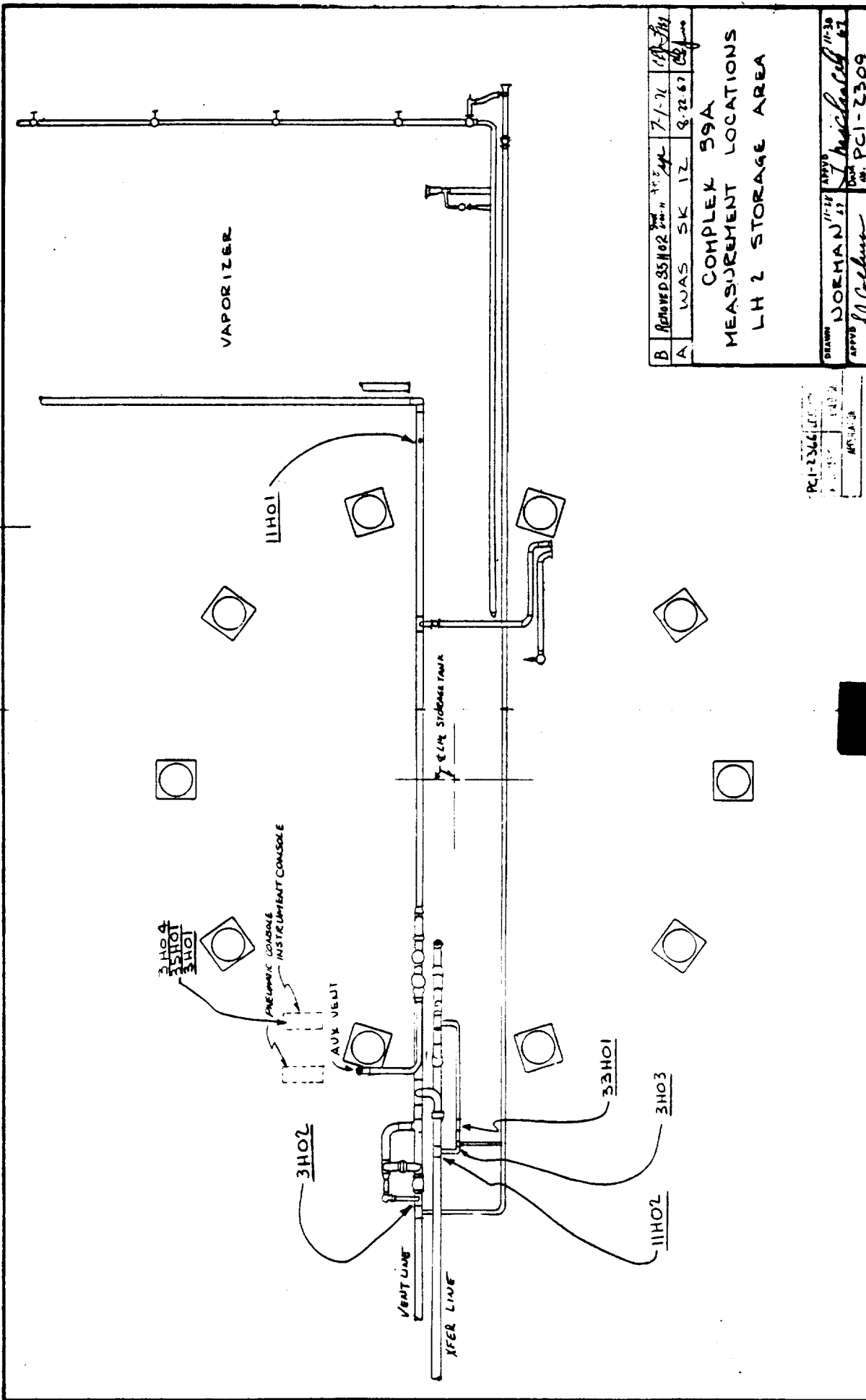


C	RELOCATED 12G05 & 12G06 AND ADDED 12G15 NEW 12G18	23/2/74
B	DELETE MEAS 21G01 THRU 21G06	APM 2/74
A	WAS SK 19 8-22-67	6-20-69
COMPLEX 39A		
LOY STORAGE AREA		
A106 & A107 PUMPS		
TYPICAL		
MEASUREMENT LOCATIONS		
NO. 11-21-67	NO. 11-29-67	NO. 11-30
Cal	Cal	Cal
PCI-2306	PCI-2306	PCI-2306

R1-2366



APPLICANT'S NAME
APPLICANT'S ADDRESS
APPLICANT'S CITY
APPLICANT'S STATE
APPLICANT'S ZIP
APPLICANT'S PHONE
APPLICANT'S FAX
APPLICANT'S E-MAIL
APPLICANT'S SIGNATURE
APPLICANT'S TITLE
APPLICANT'S ORGANIZATION
APPLICANT'S APPLICATION

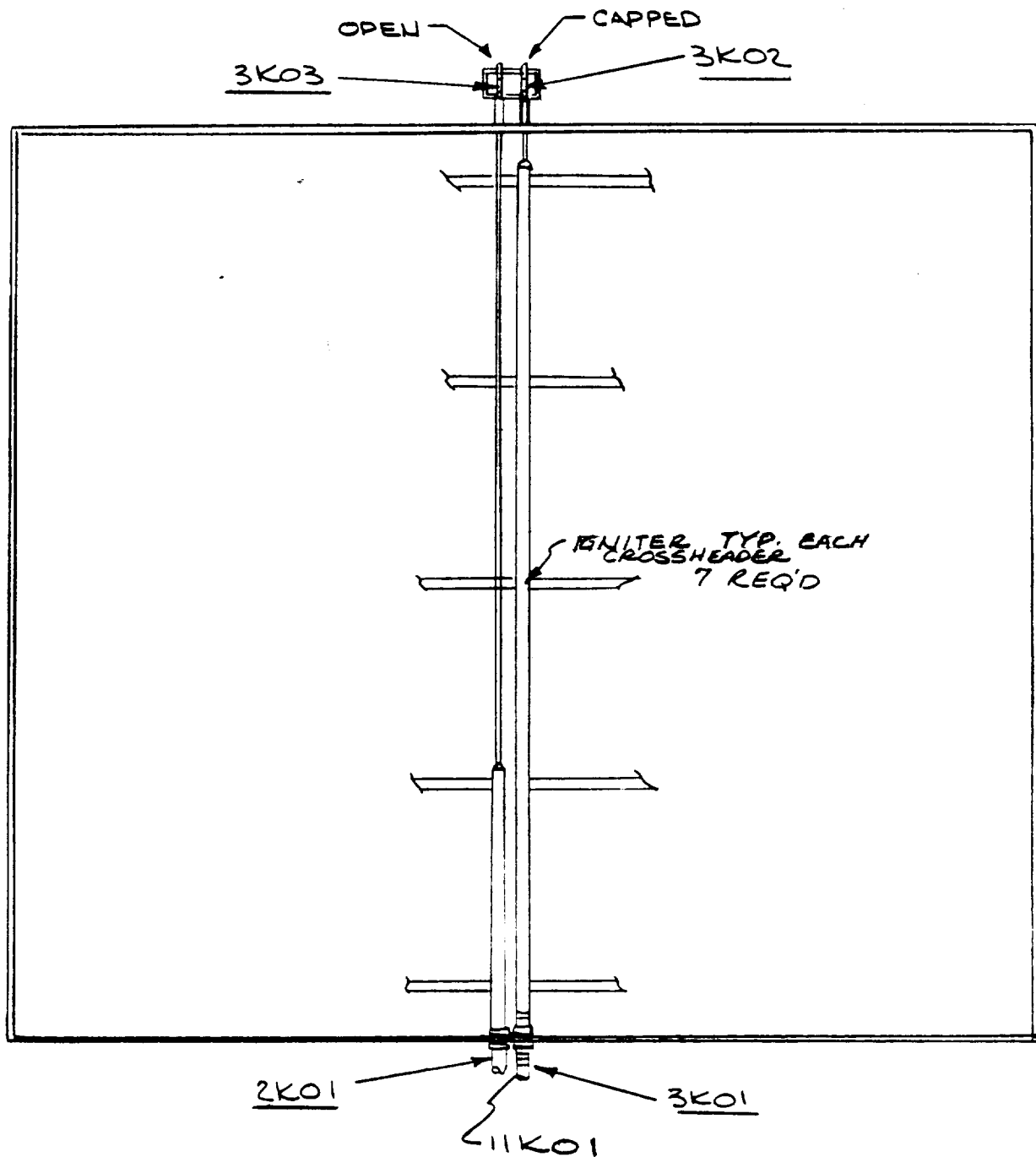


B	REMOVED 33HO2	7-1-74	11-30
A	WAS SK 12	8-22-67	11-30

COMPLEX 59A
MEASUREMENT LOCATIONS
LH 2 STORAGE AREA

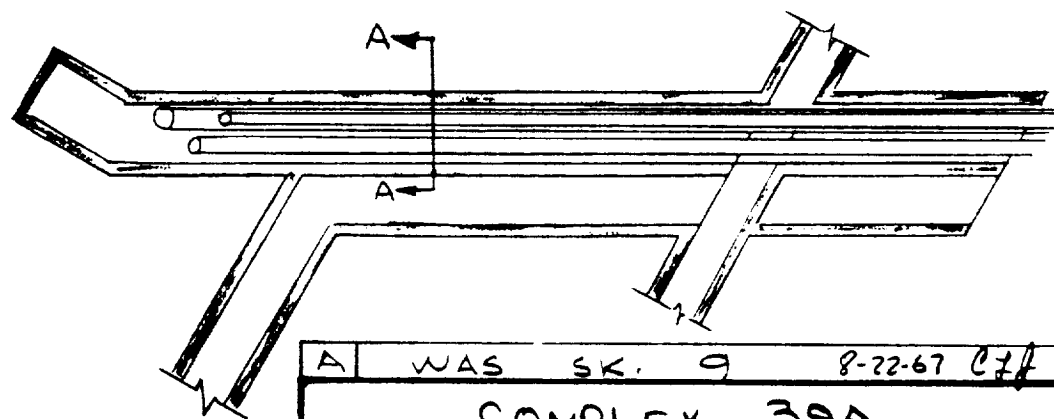
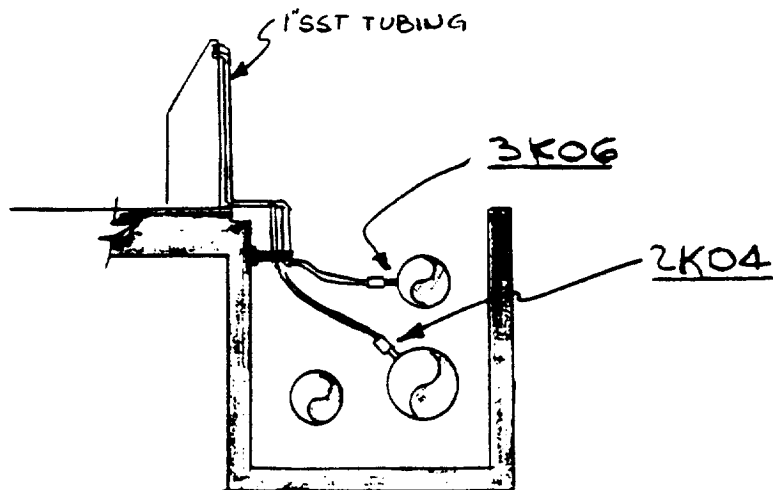
PCI-2346

DRAWN	DOORMAN	11-30	11-30
APPROVED	J. G. G. G.	11-30	11-30
	PCI-2309		



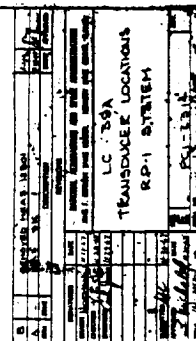
PCI-2366	LC38/PCI 3084
NEAT ASSY	USED ON
APPLICATION	

A WAS SK B		8-22-67 CJA
COMPLEX 39A MEASUREMENT LOCATIONS LH2 BURN POND		
DWR	NORMAN 11-28-67	APPROV
APPROV	J. Collins 11-29-67	J. Michael 11-30-67
		NO. PCI-2310



PCI-2366	11-30-67
NEXT ASSY	USED IN
APPLICATION	

A	WAS SK. 9	8-22-67	CJA
<p>COMPLEX 39A MEASUREMENT LOCATIONS LH2 TRANSFER LINE AT LUT BASE</p>			
DWG	NORMAN 11-28-67	APPVD	<i>L. Michael</i> 11-30-67
APPVD	<i>S. J. Callahan</i>	DWG No.	PCI-2311

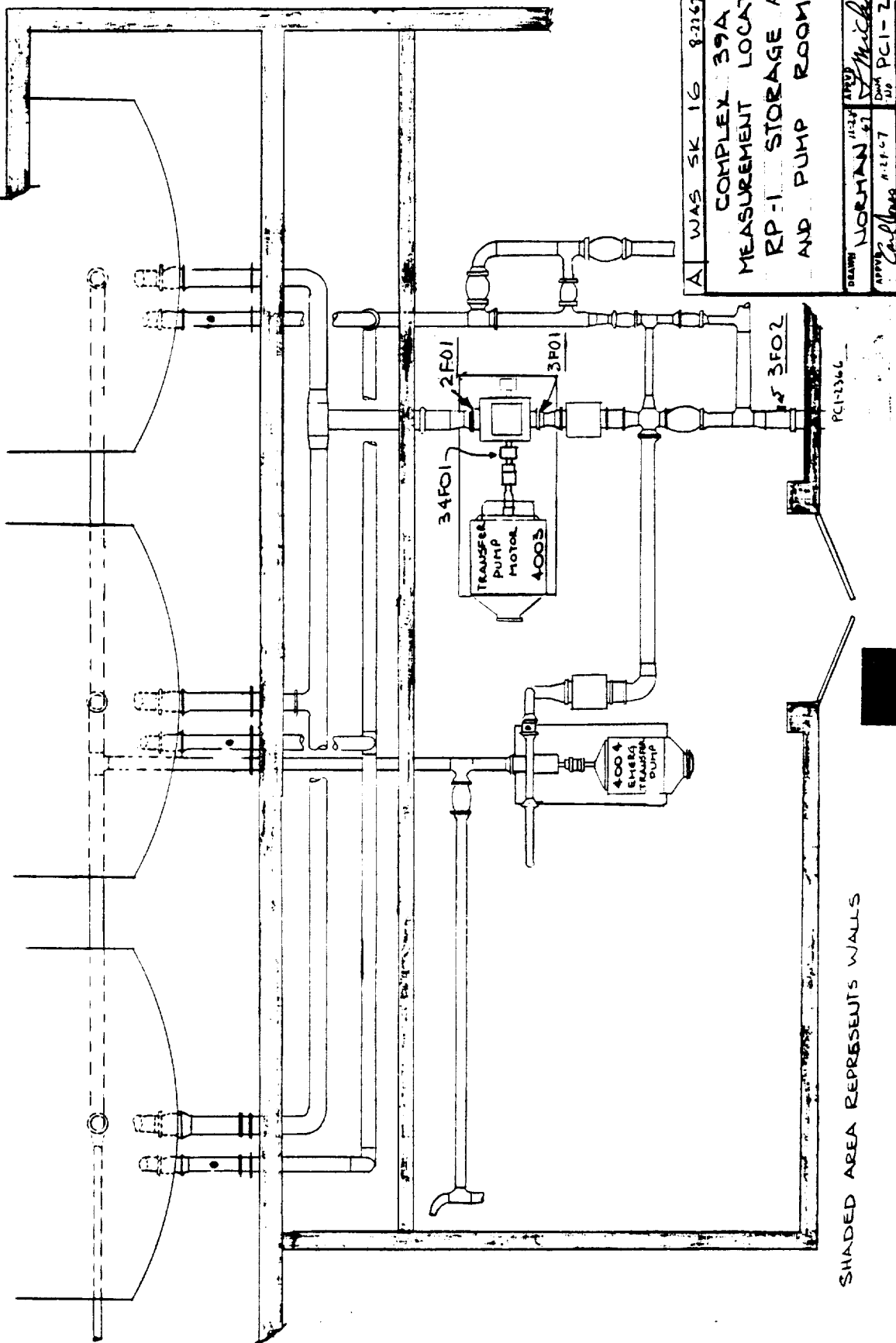


PC-1314

A 4 002

A 4 001

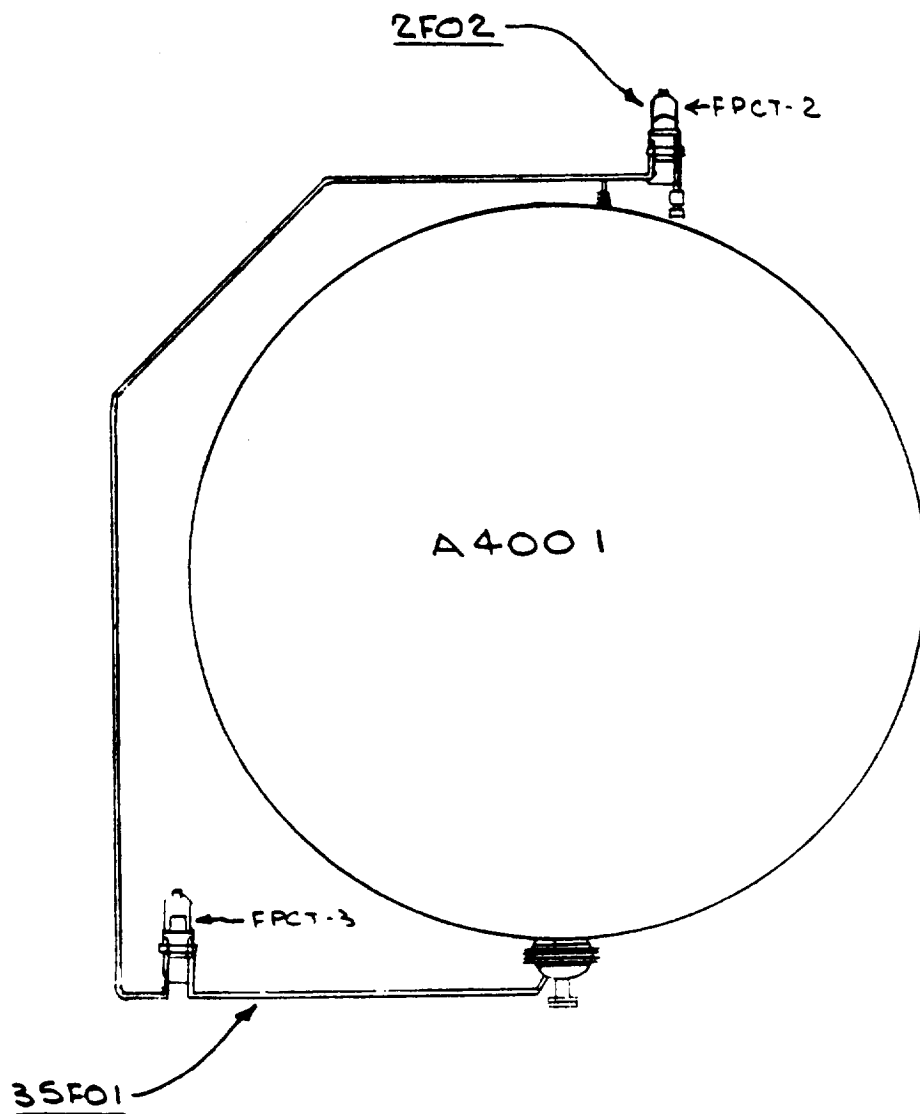
A 4 000



A WAS SK 16 8-21-67 8-21-67
COMPLEX 39A
MEASUREMENT LOCATION'S
RP-1 STORAGE AREA
AND PUMP ROOM

DESIGN	NORMAN	11/24	11/30
APP'D	Calder	8-21-67	8-21-67
PC-1-2315			

SHADE AREA REPRESENTS WALLS



A WAS SK 13 8-22-67 C.J. Jones

COMPLEX 39A
MEASUREMENT LOCATIONS
RP-1 STORAGE AREA

PCI-2366

DRAWN

NORMAN 11-28-67

APPROVED

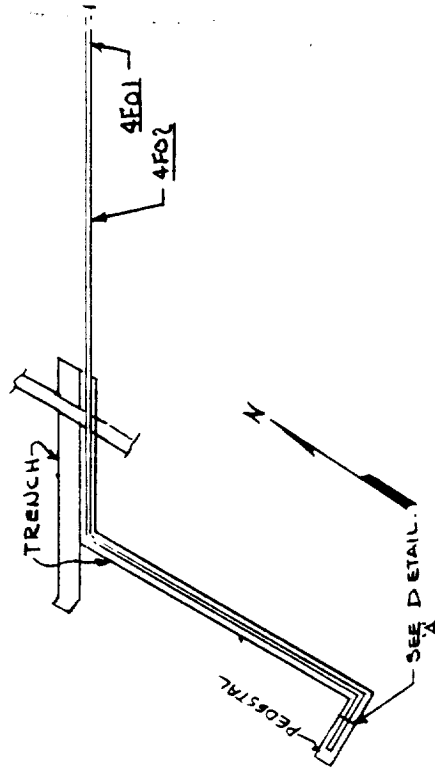
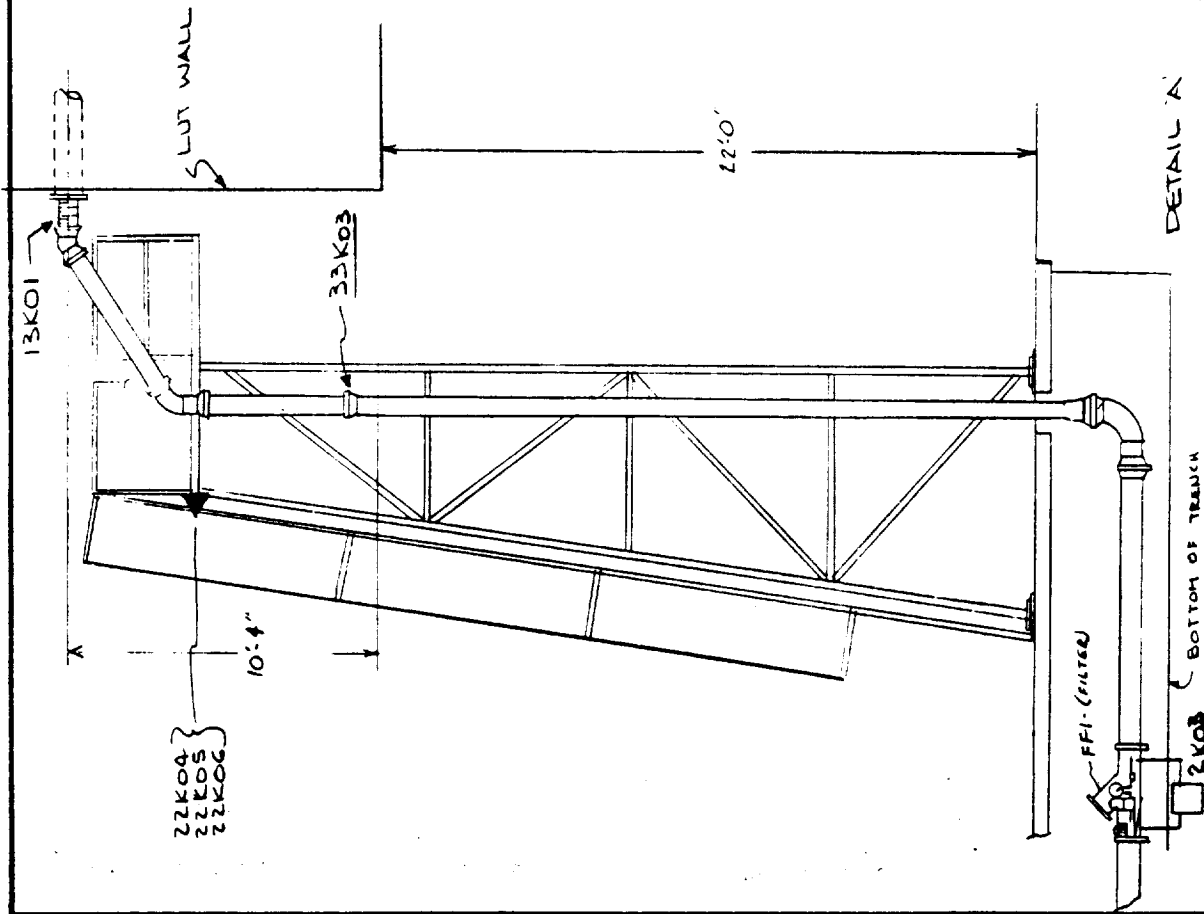
11-30-67

APPROVED

Carl Jones 11-29-67

Drawn

No. PCI-2316



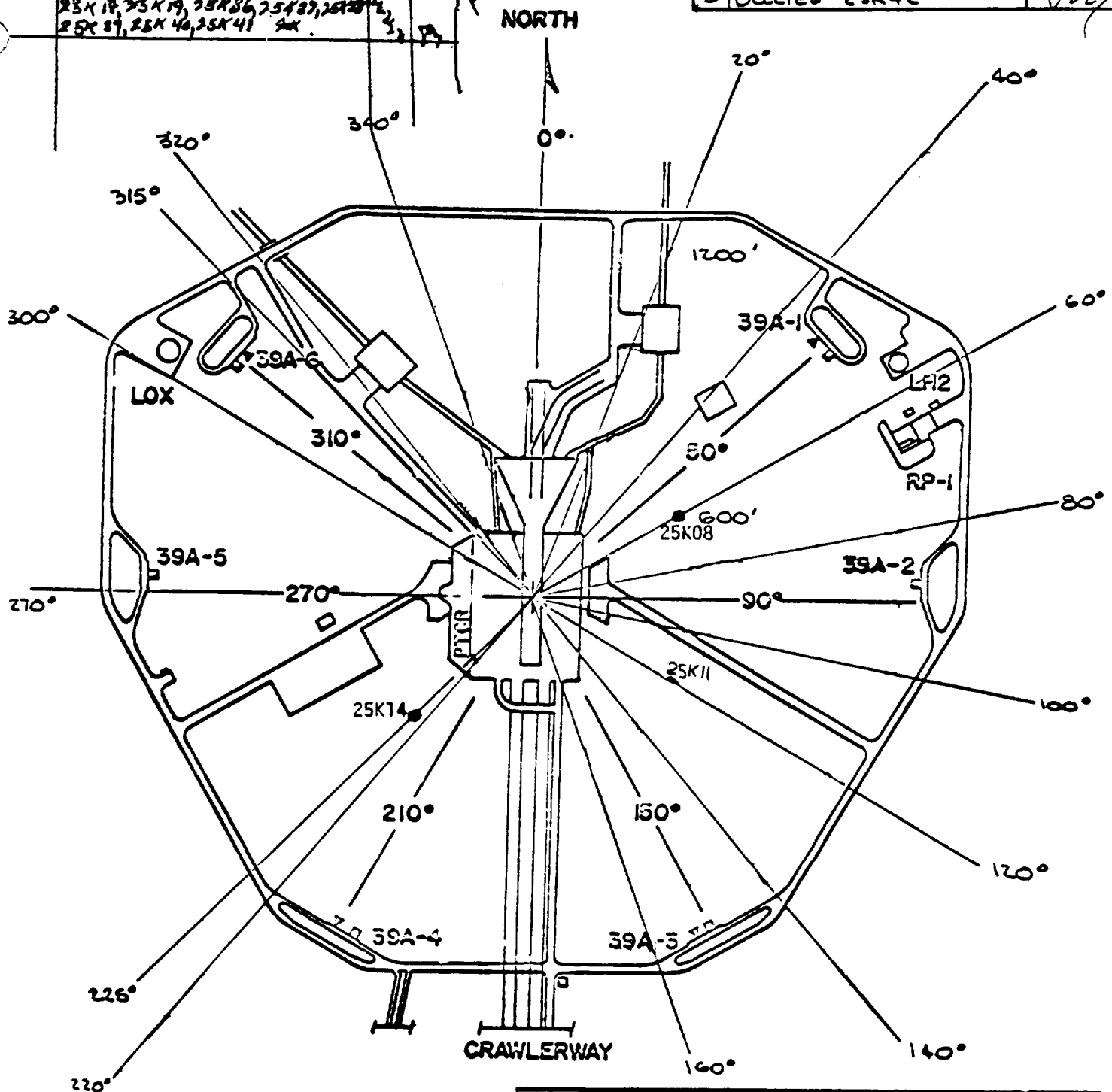
LAYOUT - TRANSFER LINE

A	WAS SK 15	8-22-67	CL
COMPLEX 39A			
MEASUREMENT LOCATIONS			
RP-1 TRANSFER LINE &			
LUT INTERFACE			
DRWN	NOORMAN	11-22-67	APPROV
CHKD	Cal	11-29-67	DATE
			NO. PCI-2317

PCI-2317

REV	DESCRIPTION	DATE	APPROVAL
C	REMOVED MEAS. 25K01, 25K03, 25K04, 25K06, 25K07, 25K09, 25K10, 25K12, 25K13, 25K15, 25K16, 25K19, 25K18, 25K19, 25K36, 25K37, 25K38, 25K39, 25K40, 25K41		

REV	DESCRIPTION	APPROVAL
A	INC E.O. #1	781 2/8
B	DELETED 25K42	781



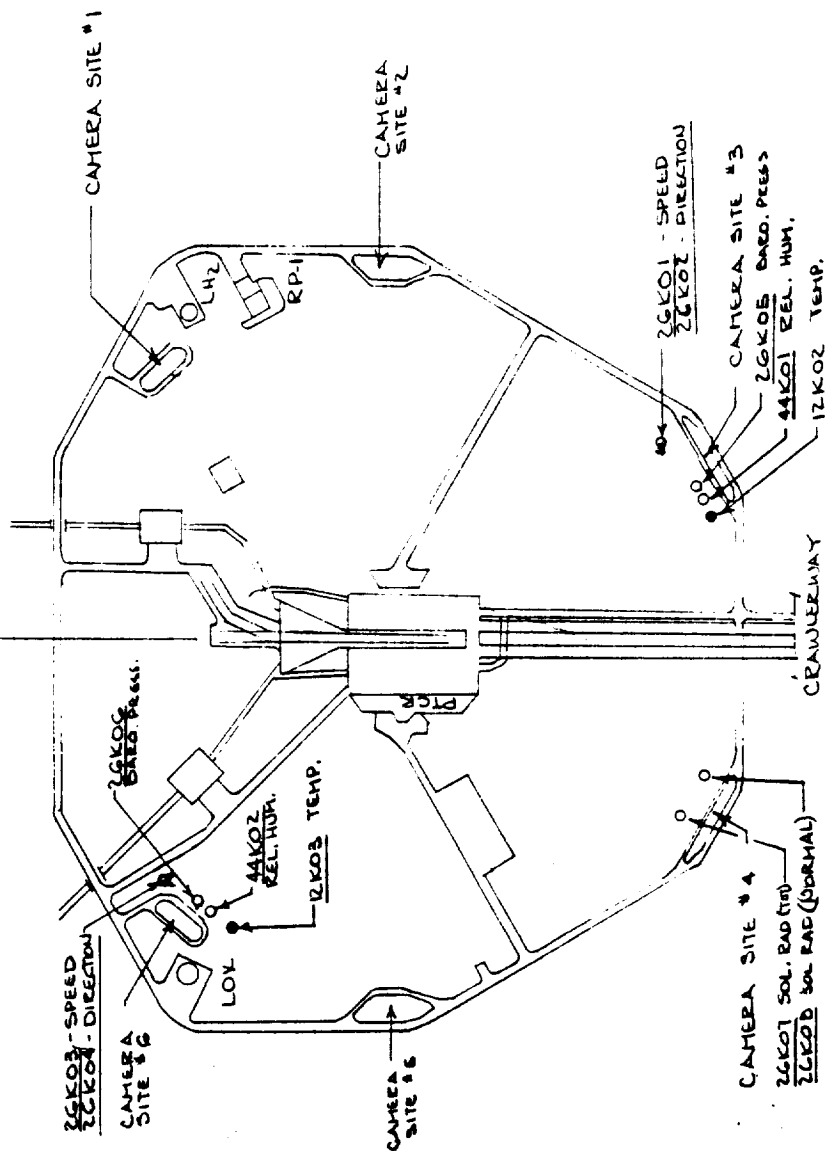
COMPLEX 39A

ACOUSTIC MEASUREMENTS
PAD AREAS

PCI-2364	LC-2364-2000
NEXT AOST	USED ON
APPROVED	

Drawn Norman 11-22-67 Approved *[Signature]* 11-30-67
Approved Carl Jones 11-29-67 *[Signature]* No. PCI-2341

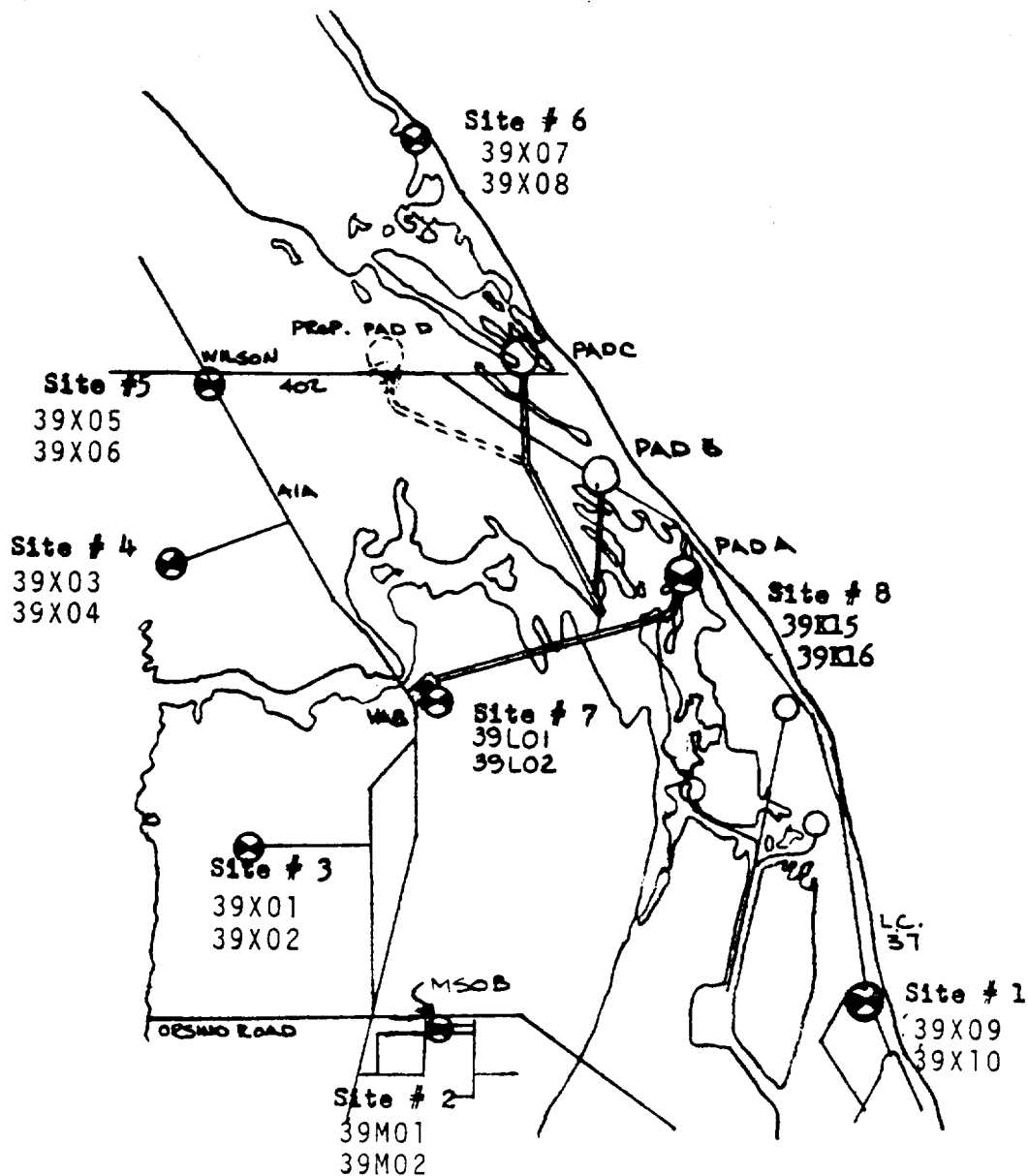
NORTH



PAD A

PCI-3366

6	REDON LOT ON SK 53	9-28-7	268
7	WAS	268	268
METEOROLOGICAL MEASUREMENTS			
TEMPERATURE, WIND SPEED, WIND DIRECTION, REL. HUM., BARO. PRESS., SOLAR RADIATION			
PAD A			
8	DOAN	11-24-67	11-30-67
9	Carlson	11-24-67	11-30-67
		PCI-2343	

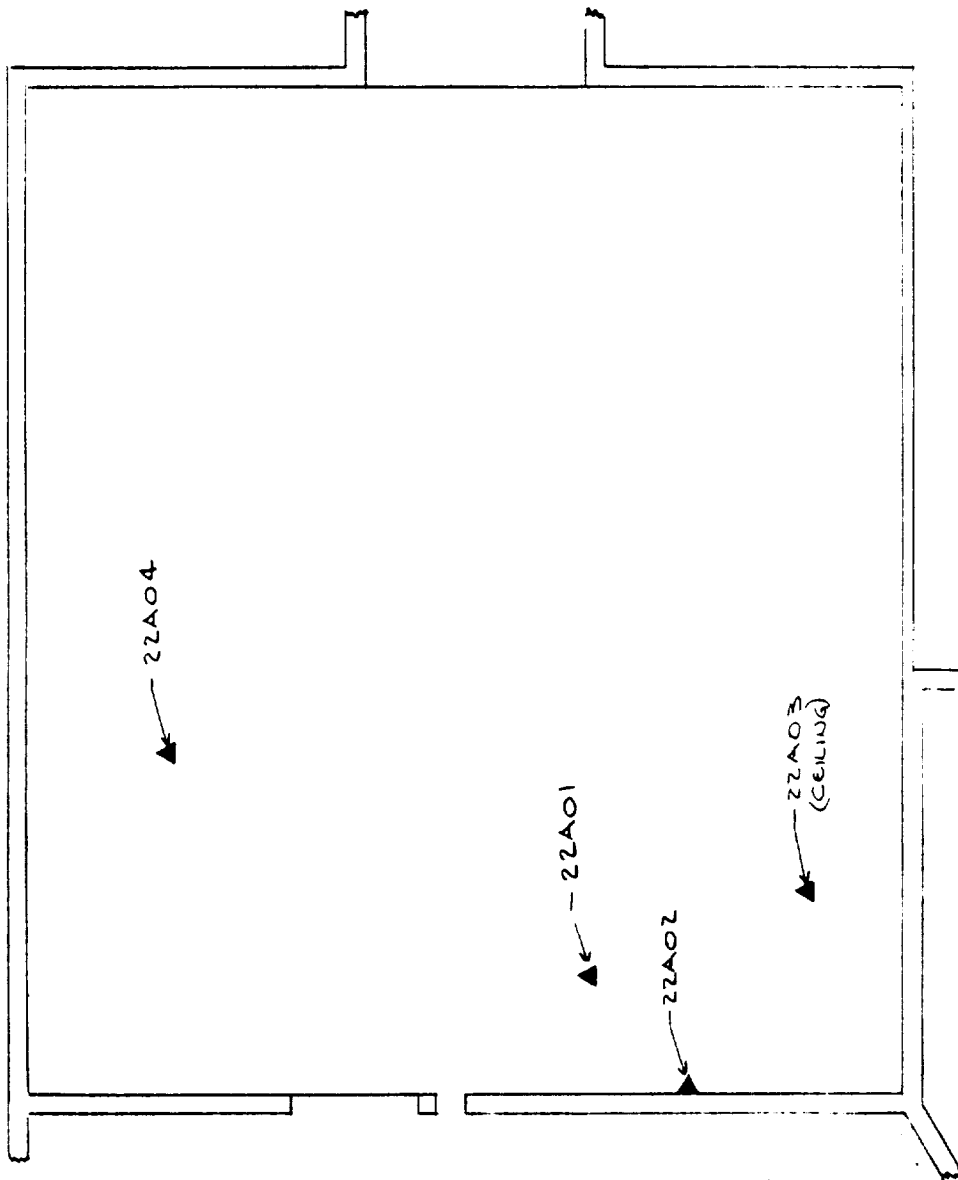


C	Added Meas. numbers to SITES 1-6	11-27-69
B	REVISED PER C.O. 01/20	2-17-69
A	WAS SK 45	8-22-67

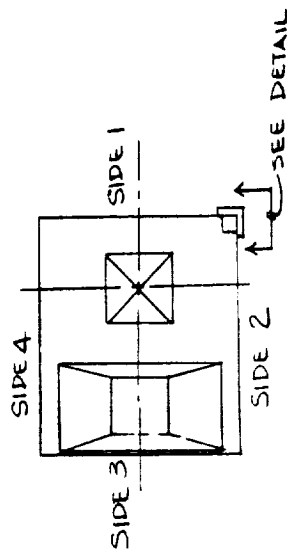
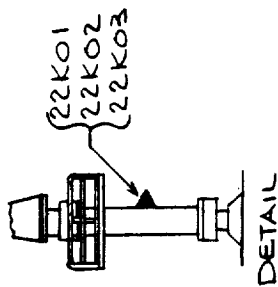
COMPLEX 39A
MEASUREMENT LOCATIONS
LIGHTNING WARNING DETECT,
POTENTIAL GRADIENT
CORONA CURRENT

DWN	NORMAN 11-28-67	APPROV	J. W. Charlton 11-30-67
APPROV	Carl Jones 11-29-67	DWN	No. PCI-2344

PCI-2366



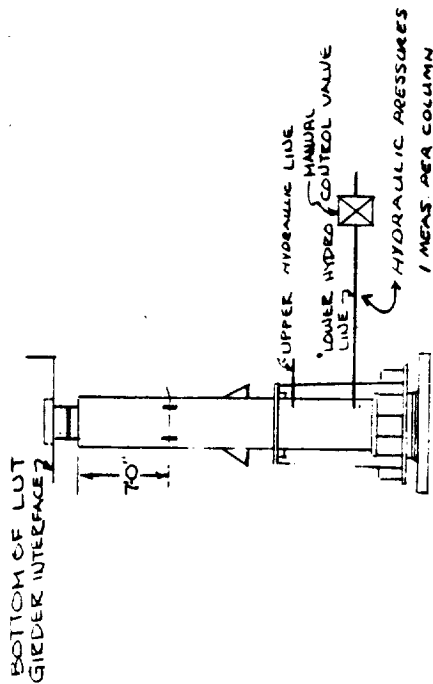
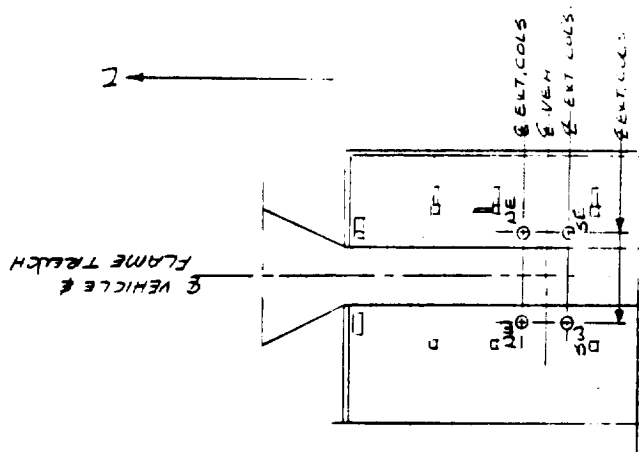
PLAN VIEW ECS ROOM



A	WAS	SK	48	P22-67 OFF
PADA				
MEASUREMENT LOCATIONS				
ECS ROOM & LUT SUPPORT				
DESIGN	11-22-67	11-30	PC1-2345	
APPROVED	11-22-67	11-30		

PC1-2366

EXTENSIBLE COLUMNS			
NE	NW	SW	SE
6K01	6K02	6K03	6K04



EXTENSIBLE COLUMNS

NE, NW, SE & SW

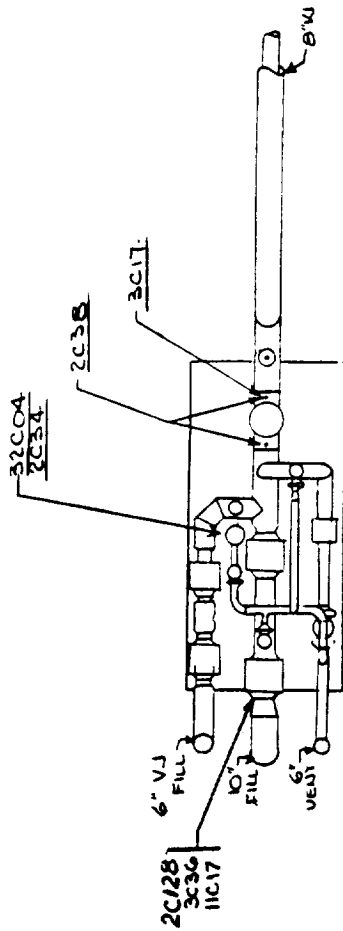
UTS.

B	INCORPORATED	3-1-68	181
A	REVISED PER EO.1	2-23-68	181

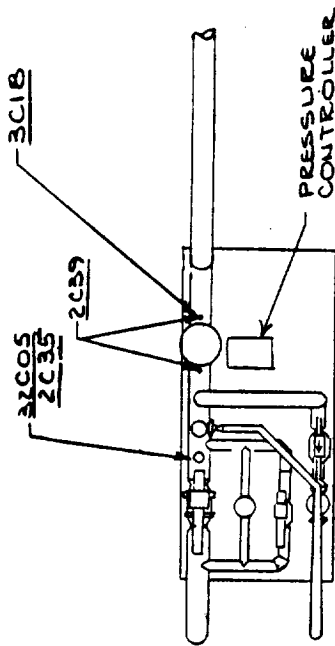
EXTENSIBLE COLUMNS
MEASUREMENTS LOCATIONS
PAD A

PC1-2366	UC-39	RI-3004
NEXT ASSY	USED ON	
APPLICATION		

DRAWN	REMAN	11-11-67	APPROB	181
APPROB	11-11-67	181	PC1-2352	



LOX VALVE COMPLEX
120' LEVEL



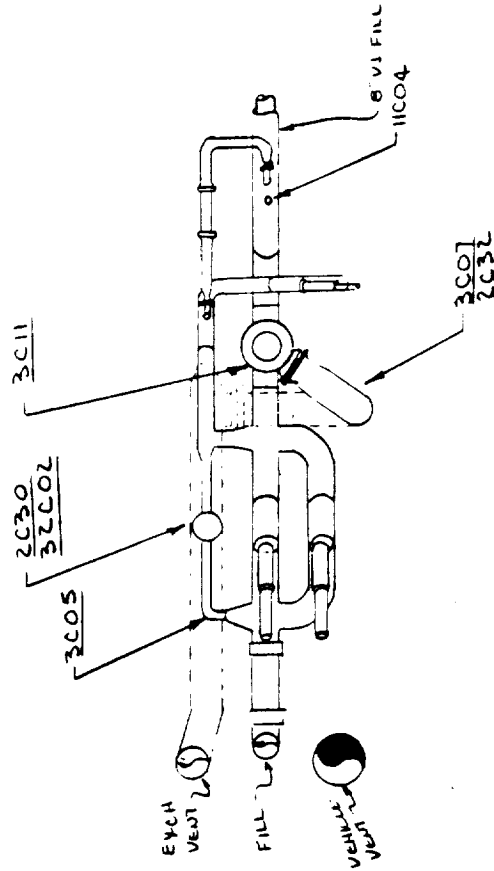
LOX VALVE COMPLEX
200' LEVEL

C	ADDED MEAS. 3C35, 3C36, 11C17, 2C38	2C38
B	ADDED LUT 3 TO TITLE 2C38	2C38
A	REMOVE MEAS. 11C09 & 11C10	2C38

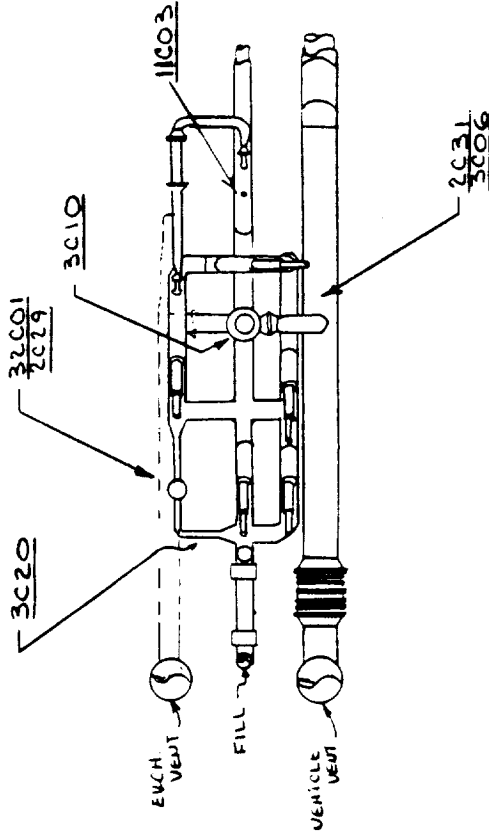
COMPLEX 39
MEASUREMENT LOCATION
LOX VALVE COMPLEX
LUT 120' & 200' LEVEL
LUT 3

PCI-2365	LC39/PCI-3084
NEXT ASSY	USED ON
APPLICATION	

DRAWN	NOBMAN	DATE	2/11/84
APPROVED	WILLIAMS	DATE	2/11/84
FILE	FORM 2-11-79		PCI-2305

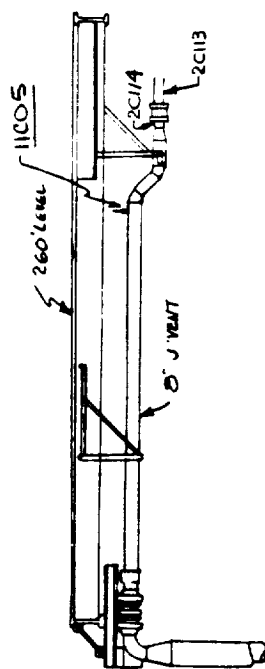


120' LEVEL
VALVE COMPLEX
SII LH2

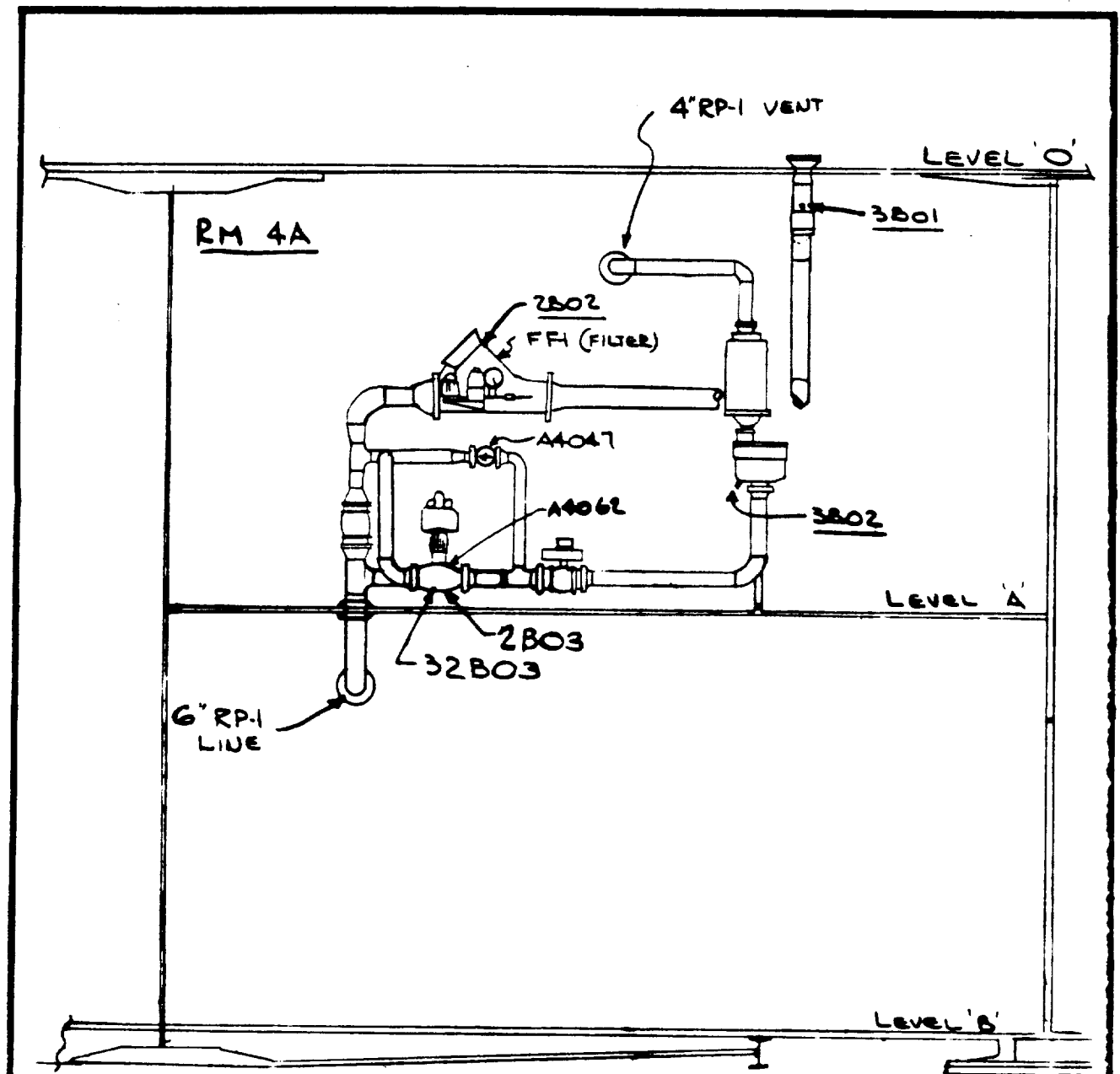


200' LEVEL
VALVE COMPLEX
SIV B
LH2

A	ADDED	LUT 37	TITLE	234	234
COMPLEX 39					
MEASUREMENT LOCATIONS					
LH2 TOWER PIPING					
120' & 200' LEVELS					
LUT 3					
NAME		NORMAL		DATE	
PCI-2365		438/41:5084		7 March 1966	
NEUTASSY		USED ON		PCI-2512	
APPLICATION		210 69			

10070 ABBEY D-1 MOORE JON

DIS 000 4 538



B	ADDED 12801	CM	
A	ADDED LUT 3 T. TITLE	7/23/69	257

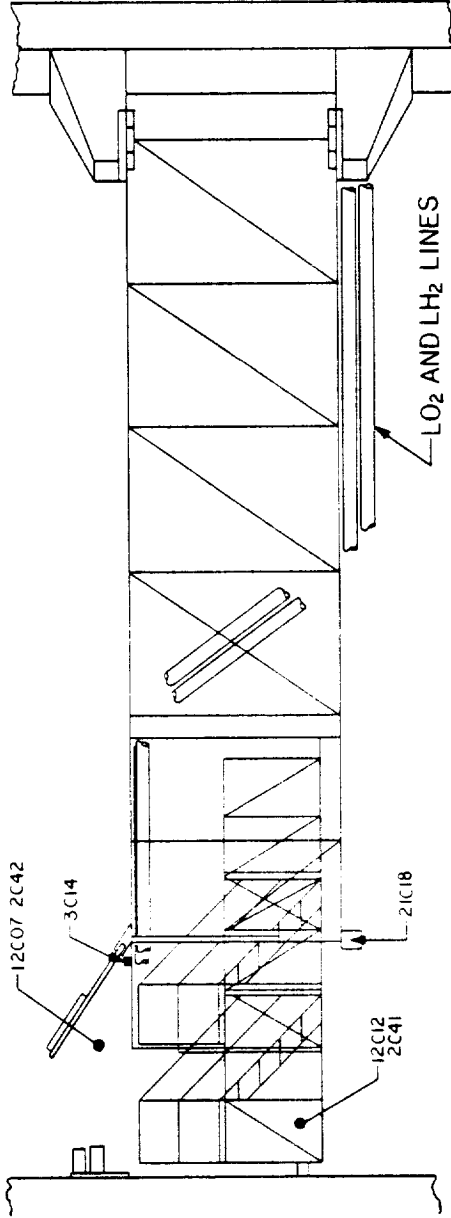
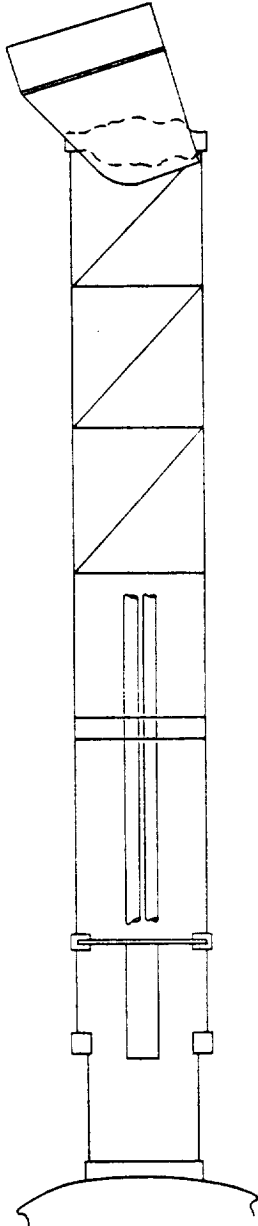
COMPLEX 39
MEASUREMENT LOCATIONS
RP-1 LUT AREA
LUT 3

PCI-2365	W39/R1-3000	DESIGN	NORMAN 3-28-69	APPROV	J. McChesney
VENT ASSY USED ON		DATE	2-10-69	APPROV	Carl Jones
APPLICATION					PCI-2518

DIS1 0004 SSB

1944-1945 when Government housing, construction, or other funds are used for any purpose other than the construction of a Government building or the construction of any other project authorized by the Government. The Government has been authorized, in the past, to use its funds for the construction of a building or other project authorized by the Government, but it has not been authorized to use its funds for the construction of a building or other project authorized by the Government, except in the case of a building or other project authorized by the Government, which is not a building or other project authorized by the Government.

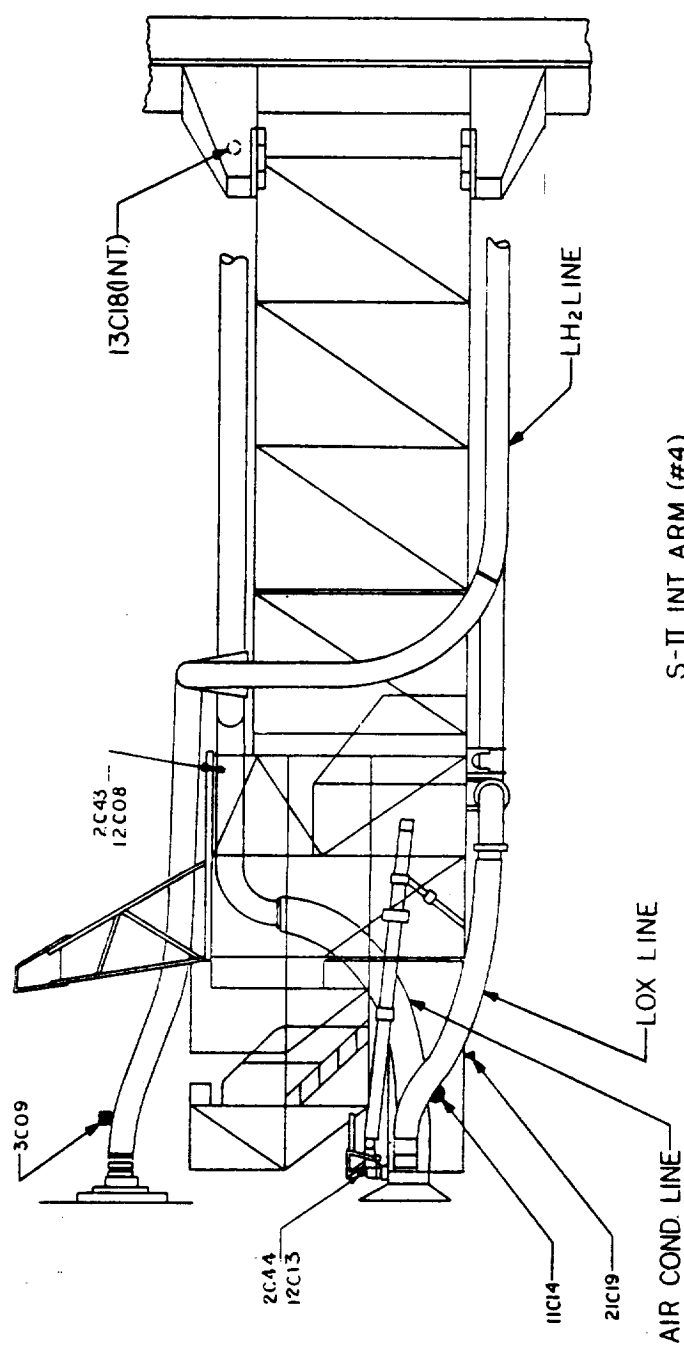
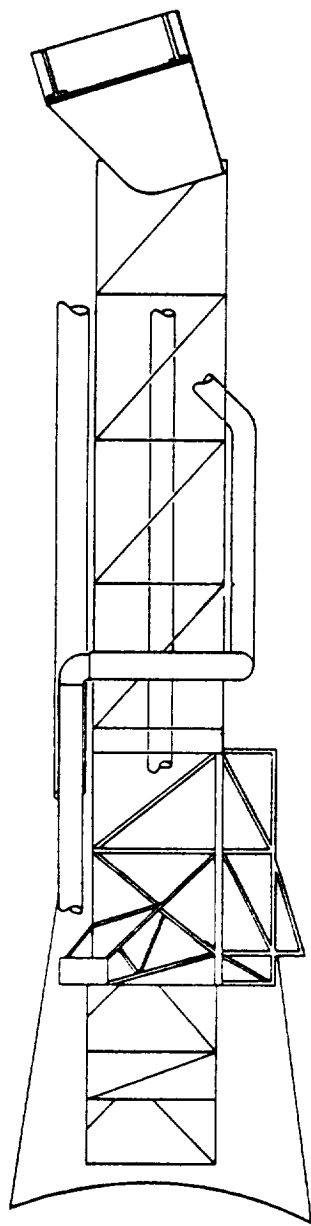
REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL
	A	ADDED BUT NOT TO FILE	10/20/66	WJF



S-IC FWD ARM (#2)

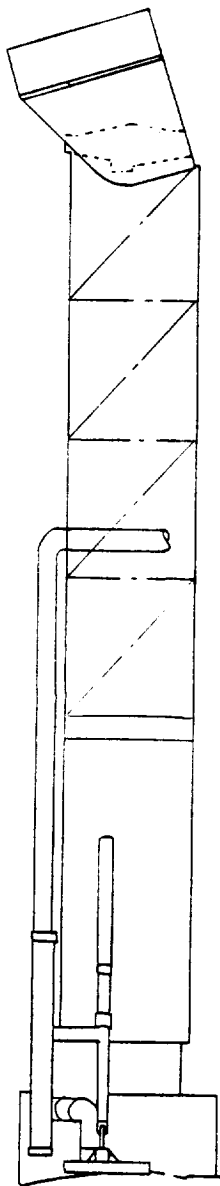
[illegible]

REVISIONS			
ZONE	SYM	DESCRIPTION	DATE
A		ADDED LINES TO 13C18	1/19/68

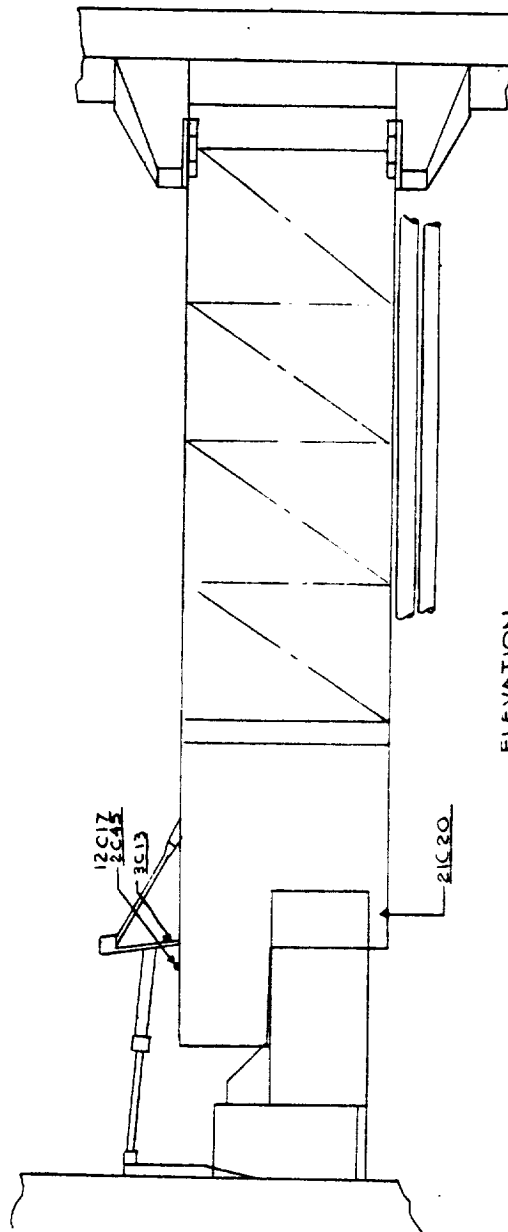


S-II INT. ARM (#4)

SEE ENGINEERING RECORDS PCI-2365 (39) NEXT ASST USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FINISHES MATERIAL HEAT TREATMENT FINAL PROTECTIVE FINISH	ORIGINAL DATE OF DRAWING 1-16-68 DESIGNED BY CHECKED BY APPROVED BY DATE 1/10/68 2/26/68	MEASUREMENT LOCATIONS ON SERVICE ARM "A" 1.131 3 WEIGHT CHECKER SCALE NONE UNIT WEIGHT	JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA DWG NO DATE C PCI-2531 SHEET 1 OF 1
--	--	---	--	---



PLAN



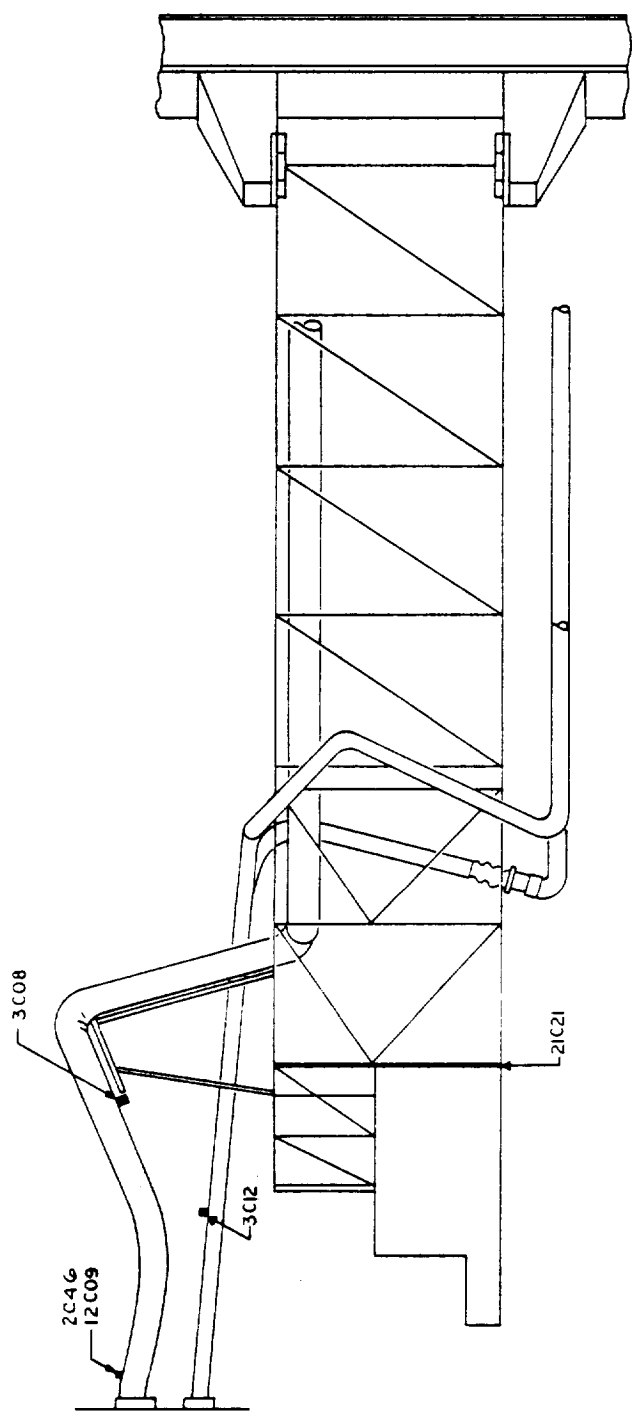
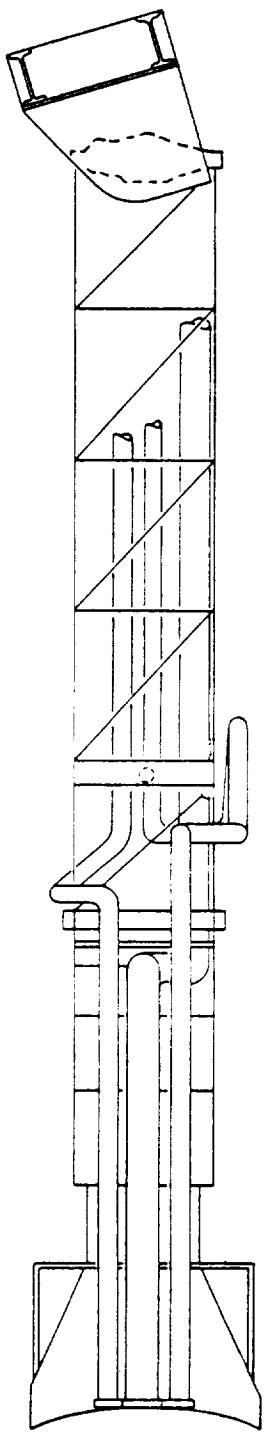
ELEVATION
S II FWD ARM

12C17
2642
3513

21K20

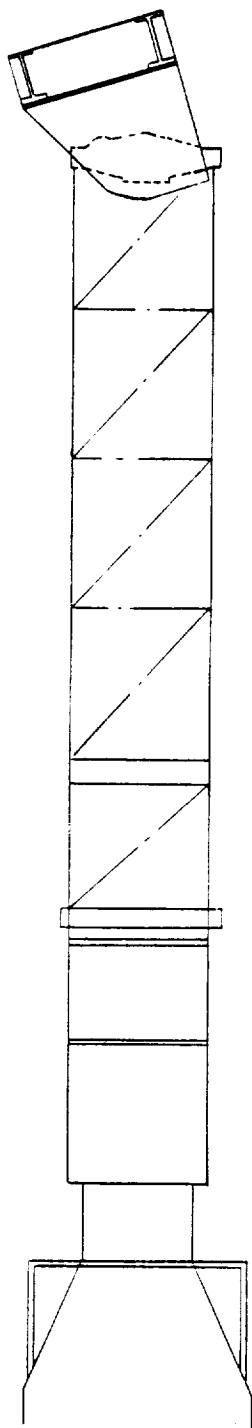
A -	ADDED	LUT 3 T.	TITLE	DATE	APPROVED
SYN		DESCRIPTION		REVISIONS	
SIGNATURES		DATE		NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	
DRAWN F E C		1.1.57		JOINT AIRCRAFT SPACE CENTER, WPA	
CHECKED J H		11/6/57		RESEARCH AND DEVELOPMENT DIVISION	
ENGINEER J H				MEASUREMENT LOCATIONS	
SUBMITTED J H				ON SERVICE ARM #5	
APPROVED J H				LUT 3	
PROJECT NO. PCI-2365		SCALE 1:10.1		SHEET 1 OF 1	
NEXT ASSEMBLY USED ON		APPROVED		PROJECT NO.	
APPLICATION		T. H. H. H.		PCI-2532	

PART NO.		REVISED		REVISIONS		DATE		APPROVAL	
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A		A		A		A		A	
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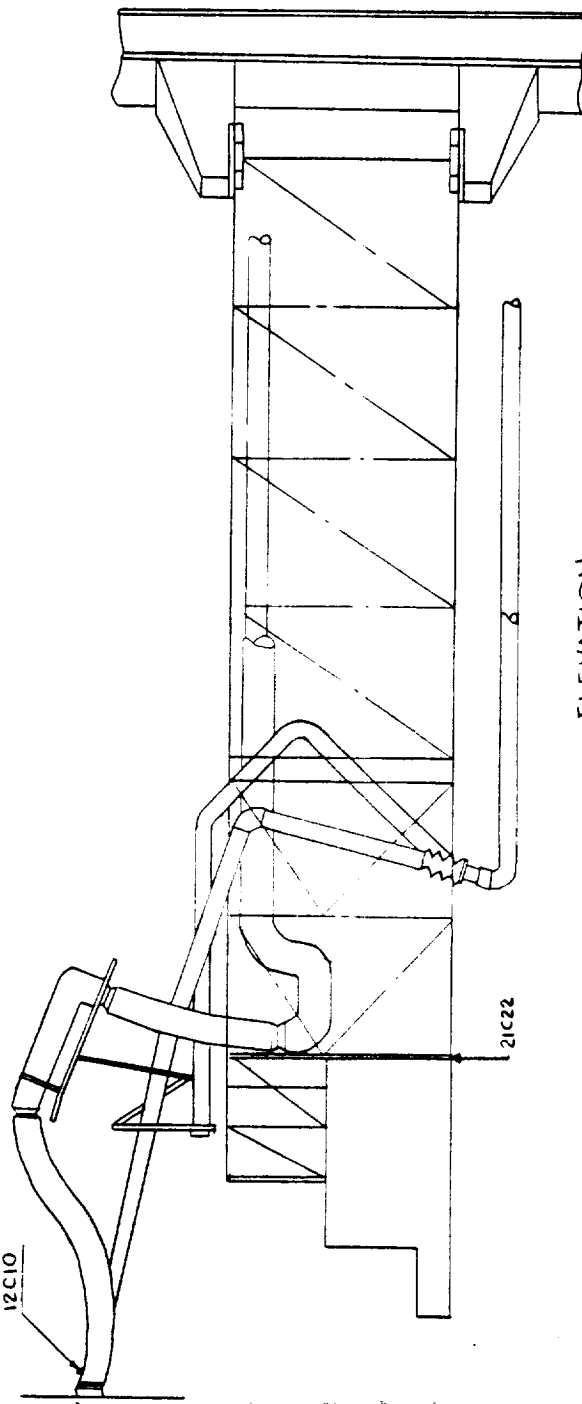


S-IV-B AFT ARM (#6)

UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE		1-16-69	
DIMENSIONS ARE IN INCHES		DRAWN BY		J. H. HARRIS	
TOLERANCES ON		CHECKED BY		J. H. HARRIS	
FRACTIONS		REVIEWED BY		J. H. HARRIS	
DECIMALS		APPROVED BY		J. H. HARRIS	
MATERIAL		DATE		2-10-69	
HEAT TREATMENT		SIGNED		J. H. HARRIS	
FINAL PROTECTIVE FINISH		DATE		3-16-69	
SEE ENGINEERING RECORDS		PART NO.		PCI-2365	
PCI-2365		USED ON		PCI-3084	
APPLICATION		WEIGHT CHECKER		NONE	
SCALE		DATE		LUT 3	
MEASUREMENT LOCATIONS ON SERVICE ARM #6		UNIT WEIGHT		1 OF 1	
JOHN F. KENNEDY SPACE CENTER, NASA		SHEET		PCI-2533	
KENNEDY SPACE CENTER, FLORIDA		DRAWING SIZE		C	

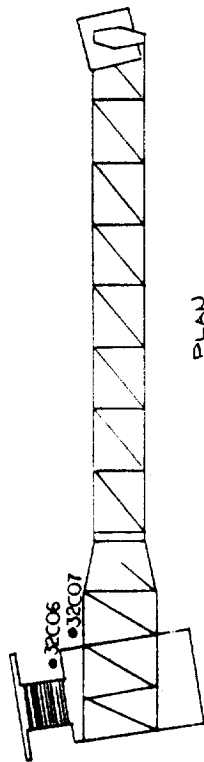


PLAN

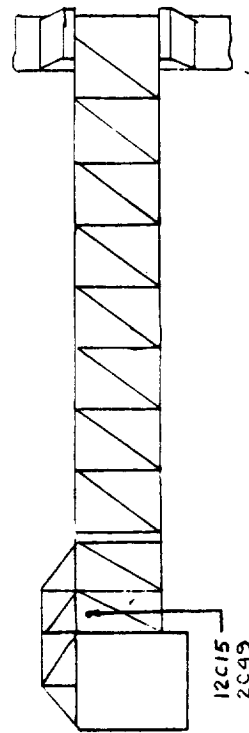


ELEVATION
S-IVB FORWARD ARM

A	SYN	JONE	ADDED	LUT 37	TITLE	2.2	DATE	APPROVED	REVISIONS		
									DESCRIPTION	DATE	
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, FLA. KENNEDY SPACE CENTER, FLORIDA											
MEASUREMENT LOCATIONS ON SERVICE ARM #7 LUT 3											
SIGNATURES		DATE		SUBMITTED		BY		FOR		BY	
DRAWN YEM		1-16-69		1-16-69		1-16-69		1-16-69		1-16-69	
CHECKED H.P.		1-16-69		1-16-69		1-16-69		1-16-69		1-16-69	
ENGINEER T.B.		1-16-69		1-16-69		1-16-69		1-16-69		1-16-69	
APPROVED		1-16-69		1-16-69		1-16-69		1-16-69		1-16-69	
SUBMITTED		1-16-69		1-16-69		1-16-69		1-16-69		1-16-69	
APPROVED		1-16-69		1-16-69		1-16-69		1-16-69		1-16-69	
NEXT ASSY USED ON		1-16-69		1-16-69		1-16-69		1-16-69		1-16-69	
APPLICATION		1-16-69		1-16-69		1-16-69		1-16-69		1-16-69	

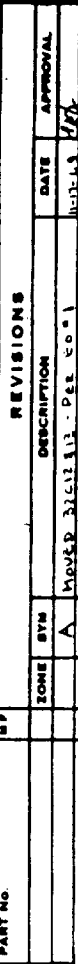


PLAN



ELEVATION
COMMAND MODULE ARM

REV	DATE	BY	DESCRIPTION	TITLE	DATE	BY	PROVIDED																																													
A																																																				
<table border="1"> <tr> <td colspan="2">SIGNATURES</td> <td>DATE</td> </tr> <tr> <td>DESIGNED</td> <td>J. H.</td> <td>1/14/71</td> </tr> <tr> <td>CHECKED</td> <td>J. H.</td> <td>1/14/71</td> </tr> <tr> <td>ENGINEER</td> <td>J. H.</td> <td>1/14/71</td> </tr> <tr> <td>APPROVED</td> <td>J. H.</td> <td>1/14/71</td> </tr> <tr> <td colspan="2">SUBMITTED</td> <td>1/14/71</td> </tr> <tr> <td colspan="2">REVISIONS</td> <td></td> </tr> <tr> <td colspan="3">NATIONAL AERONAUTICS AND SPACE ADMINISTRATION</td> </tr> <tr> <td colspan="3">JOHN F. KENNEDY SPACE CENTER, FLA.</td> </tr> <tr> <td colspan="3">RESEARCH SPACE CENTER, FLORIDA</td> </tr> <tr> <td colspan="3">MEASUREMENT LOCATIONS</td> </tr> <tr> <td colspan="3">ON SERVICE ARM # 9</td> </tr> <tr> <td colspan="3">LUT 3</td> </tr> <tr> <td colspan="3">PCI-2536</td> </tr> <tr> <td colspan="3">SHEET 1 OF 1</td> </tr> </table>								SIGNATURES		DATE	DESIGNED	J. H.	1/14/71	CHECKED	J. H.	1/14/71	ENGINEER	J. H.	1/14/71	APPROVED	J. H.	1/14/71	SUBMITTED		1/14/71	REVISIONS			NATIONAL AERONAUTICS AND SPACE ADMINISTRATION			JOHN F. KENNEDY SPACE CENTER, FLA.			RESEARCH SPACE CENTER, FLORIDA			MEASUREMENT LOCATIONS			ON SERVICE ARM # 9			LUT 3			PCI-2536			SHEET 1 OF 1		
SIGNATURES		DATE																																																		
DESIGNED	J. H.	1/14/71																																																		
CHECKED	J. H.	1/14/71																																																		
ENGINEER	J. H.	1/14/71																																																		
APPROVED	J. H.	1/14/71																																																		
SUBMITTED		1/14/71																																																		
REVISIONS																																																				
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION																																																				
JOHN F. KENNEDY SPACE CENTER, FLA.																																																				
RESEARCH SPACE CENTER, FLORIDA																																																				
MEASUREMENT LOCATIONS																																																				
ON SERVICE ARM # 9																																																				
LUT 3																																																				
PCI-2536																																																				
SHEET 1 OF 1																																																				
<table border="1"> <tr> <td>ENGINEERING</td> <td>LC-39</td> <td>PCI-5084</td> </tr> <tr> <td>INSTRUMENTATION</td> <td>PCI-5084</td> <td>USLD ON</td> </tr> <tr> <td>APPLICATION</td> <td></td> <td></td> </tr> </table>								ENGINEERING	LC-39	PCI-5084	INSTRUMENTATION	PCI-5084	USLD ON	APPLICATION																																						
ENGINEERING	LC-39	PCI-5084																																																		
INSTRUMENTATION	PCI-5084	USLD ON																																																		
APPLICATION																																																				



SEE ENGINEERING RECORDS	UNLESS OTHERWISE SPECIFIED		GENERAL DATE OF DRAWING 1-16-69 DESIGNED BY FAUL CHECKED BY [Signature] ENGINEER [Signature] SUBMITTED [Signature] 2-20-69 APPROVED [Signature]	LUT 3 PRIMARY DAMPER ARM MEASUREMENT LOCATIONS	JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA
	DIMENSIONS ARE IN INCHES				
	TOLERANCES ON				
	FRACTIONS DECIMALS ANGLES				
PCI-2365	IC 59/PCI-3084	MATERIAL			
NEXT ASSY	USED ON	HEAT TREATMENT			
APPLICATION		FINAL PROTECTIVE FINISH			

DIST. 0004 336

POS I

Pos II

III
POB

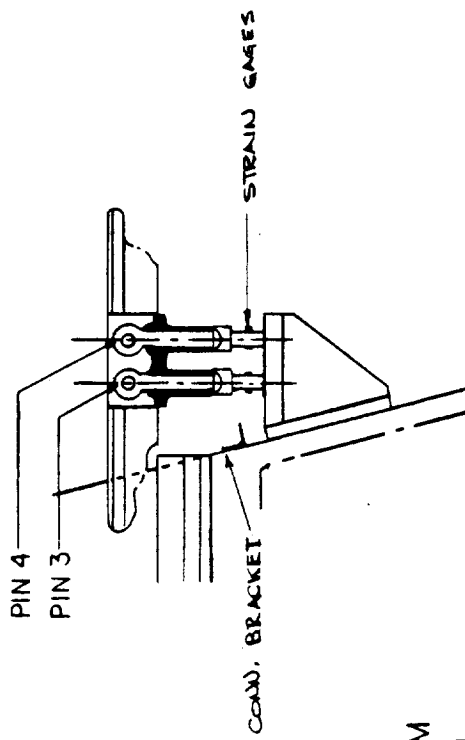
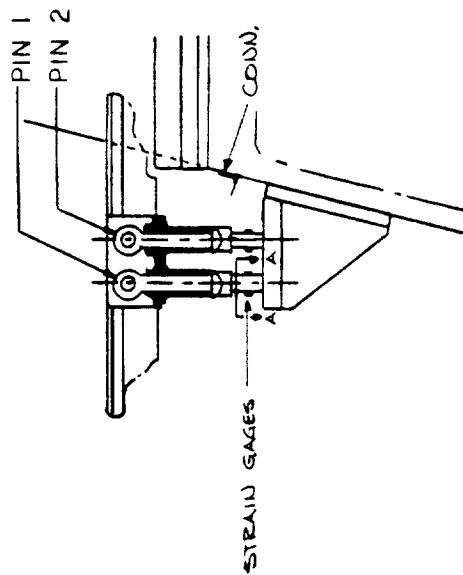
Pos. IV

PIN 2 - 31634
PIN 3 - 31635

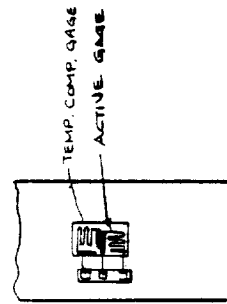
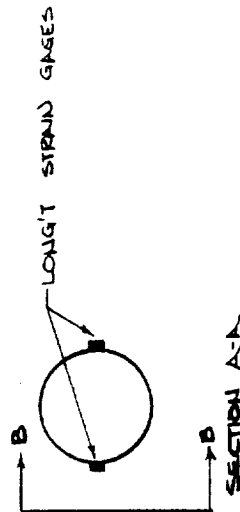
9/17 2 3/8 38
9/17 3 3/8 39

PIN 2 - 31842
PIN 3 - 31843

PIN 2- 31B4C
PIN 3- 31B47



TYPICAL
SLOW RELEASE MECHANISM
STRAIN INSTRUMENTATION

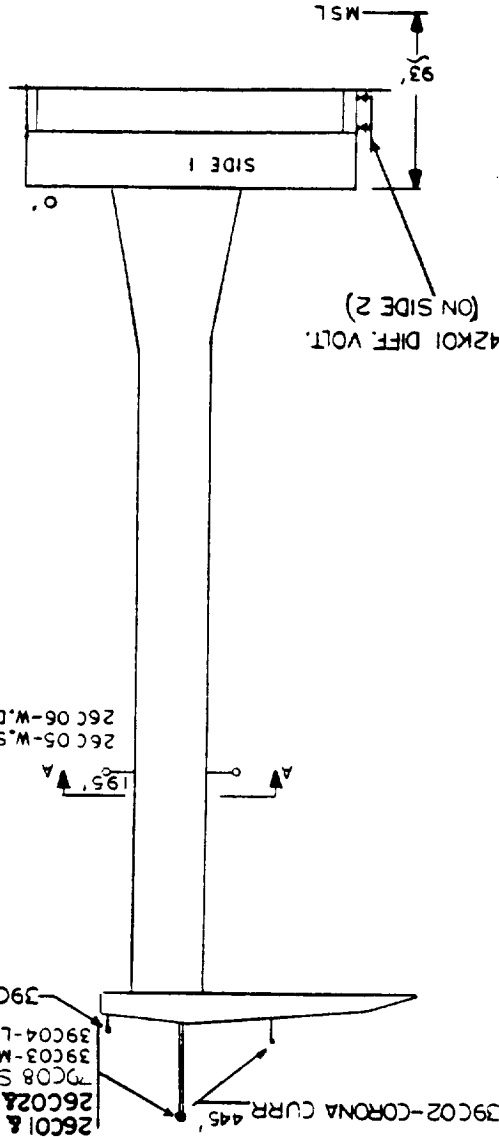
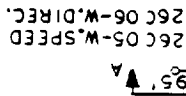
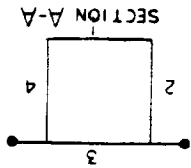


SECTION B.B

SYM.	ZONE	DESCRIPTION	DATE	APPROVED
		REVISIONS		
SIGNATURES		NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN FENNELL SPACE CENTER, FLA. KENNEDY SPACE CENTER, FLORIDA		
DRAWN	YEN	DATE	LUT-3 TYPICAL HOLD DOWN ARM SLOW RELEASE MECHANISM STRAIN GAGE LOCATIONS	
CHECKED	J. H.	1-16-68		
ENGINEER	W. B. Z	1-17-68		
	J. J. Bellum	2-10-68		
SUBMITTED	Carl Jones	2-10-68	SIZE DWG. NO. PCI-2551 B	
APPROVED	Michael	1-16-68	PROJ. NO. SHEET 1 OF 1	

KAC FORM 1-0 (REV. 8/88)

39C02-CORONA CURR
445
26C01 & 26C07-WIND SPEED
26C08-WIND DIRECTION
26C08 STROKE CURRENT
39C03-MAGNETIC LINK
39C04-LIGHTNING DISCHARGE
39C05-MAJ. LINK



PART NO.	REVISONS				
MP	ZONE	SYM	DESCRIPTION	DATE	APPROVAL
		A	Added 39C05, 39C06, 39C07, 39C08	2/19/70	W. J. H. 1
			Moved 39C02 TO CEILING ROOM		
			Added 42K01		
		B	ADD 26C07 & 26C08	6-25-70	W. J. H. 1
		C	DELETED 26C03/04	7-24-70	W. J. H. 1
		D	DELETED 39C06 & 39C07	1-24-71	W. J. H. 1

		UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE OF DRAWING 1-16-69		METEOROLOGICAL AND LIGHTNING MEASUREMENTS		JOHN F. KENNEDY SPACE CENTER, FLORIDA		KENNEDY SPACE CENTER, FLORIDA	
		DIMENSIONS ARE IN INCHES		DRAWN BY		LUT 3		DWG SIZE		B	
		TOLERANCES ON FRACTIONS		CHECKED BY				WEIGHT CHECKER		PC1-2553	
		DECIMALS		CHECKED BY				DATE		PC1-2553	
		ANGLES		ENGINEER				SCALE		SHEET 1 OF 1	
		MATERIAL		SUBMITTED				UNIT WEIGHT			
		HEAT TREATMENT		APPROVED							
		FINAL PROTECTIVE FINISH		J. Michol							
		APPLICATION		LC384							
		NEXT ASSY		PC1-2365							
		USED ON		LC384							
		RECORDS		SEE ENGINEERING							

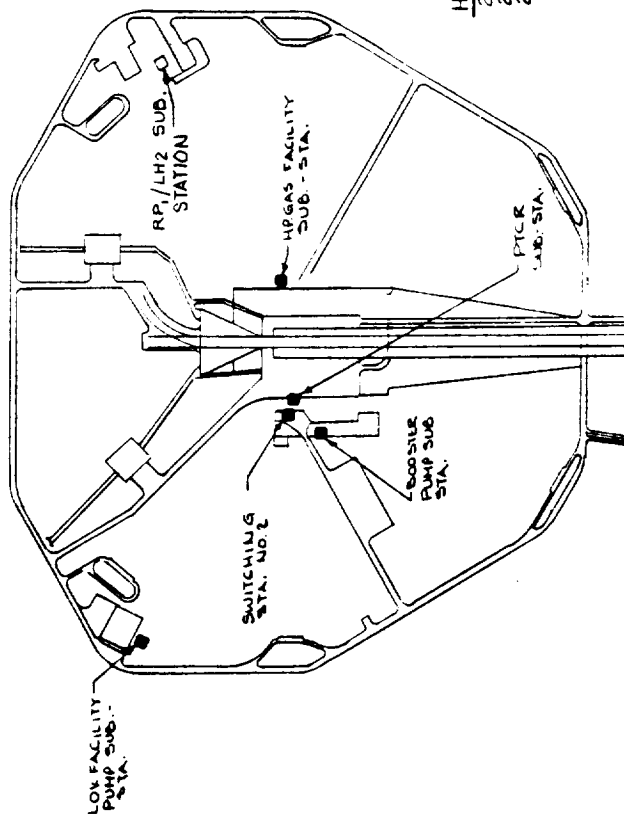
0004 592



1. MEAS. NUMBERS 2203 THRU 2412
ARE MOUNTED ON INSIDE RACK #4.
MEAS. NUMBERS 2414 THRU 2423 ARE
MOUNTED ON THE SAME RACK. 5V SIGNALS
ARE PICKED UP IN PATCH RACK 551G IN FE

[illegible]

PCJ-2366	6/30/90	USED ON
NEXT ASSY		
APPLICATION		



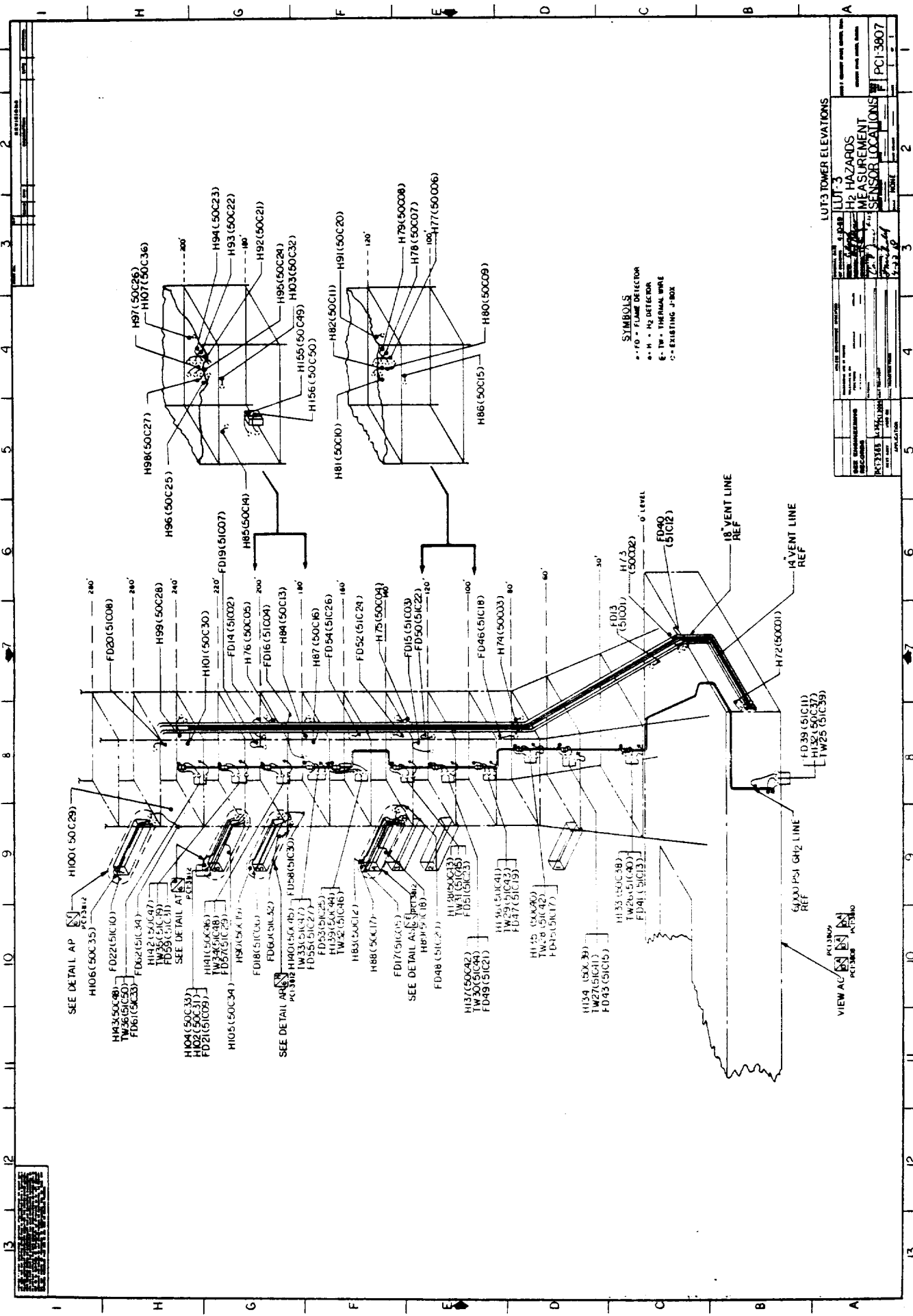
HP GAS FACILITY SUB. STA.
22K21
22K22
22K23

SWITCHING STATION NO. 2
22K43 22K62 22K65
22K44 22K63 22K66
22K45 22K64 22K67

BOOSTER PUMP SUB. STATION
22K07 22K33
22K08 22K56
22K09 22K57
22K11 22K58
22K12 22K59
22K60 22K61

REVISIONS		DATE		SIGNATURES	
D	ADDED 22K56 THRU 22K67 22K49 THRU 22K55 22K37 THRU 22K40 22K24 THRU 22K31 21K07 THRU 21K14 22K13 THRU 22K20	5/17/66	5/17/66	DR. N. N. N.	2-27-66
C	REMOVED	5/17/66	5/17/66	CHECKED R. F. F.	2-27-66
B	OBsolete & HISTORY FILE DWG. PER EO #03	5/17/66	5/17/66	ENGINEER J. B. B.	2-27-66
A	INCORP. E.O. #02	5/17/66	5/17/66	APPROVED J. B. B.	2-27-66
SYM	INCORP. E.O. #01	5/17/66	5/17/66	SUBMITTED	2-27-66
<p>NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, FLORIDA</p> <p>VIBRATION LOCATIONS ON PAD 'A' TRANSFORMERS</p> <p>SIZE DWG. NO. PCI-2571 B</p> <p>PROJ. NO. 1 OF 1</p>					

PCI-2566
NEXT ASSY
USED ON
APPLICATION



SYMBOLS
 - FD - FLAME DETECTOR
 - H - H₂ DETECTOR
 - TW - THERMAL WIRE
 - C - EXISTING J-BOX

LUT3 TOWER ELEVATIONS

LUT-3	
DATE	DESCRIPTION
12/1/00	REVISION 1
12/1/00	REVISION 2
12/1/00	REVISION 3
12/1/00	REVISION 4
12/1/00	REVISION 5
12/1/00	REVISION 6
12/1/00	REVISION 7
12/1/00	REVISION 8
12/1/00	REVISION 9
12/1/00	REVISION 10
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12/1/00	REVISION 100

18" VENT LINE REF

14" VENT LINE REF

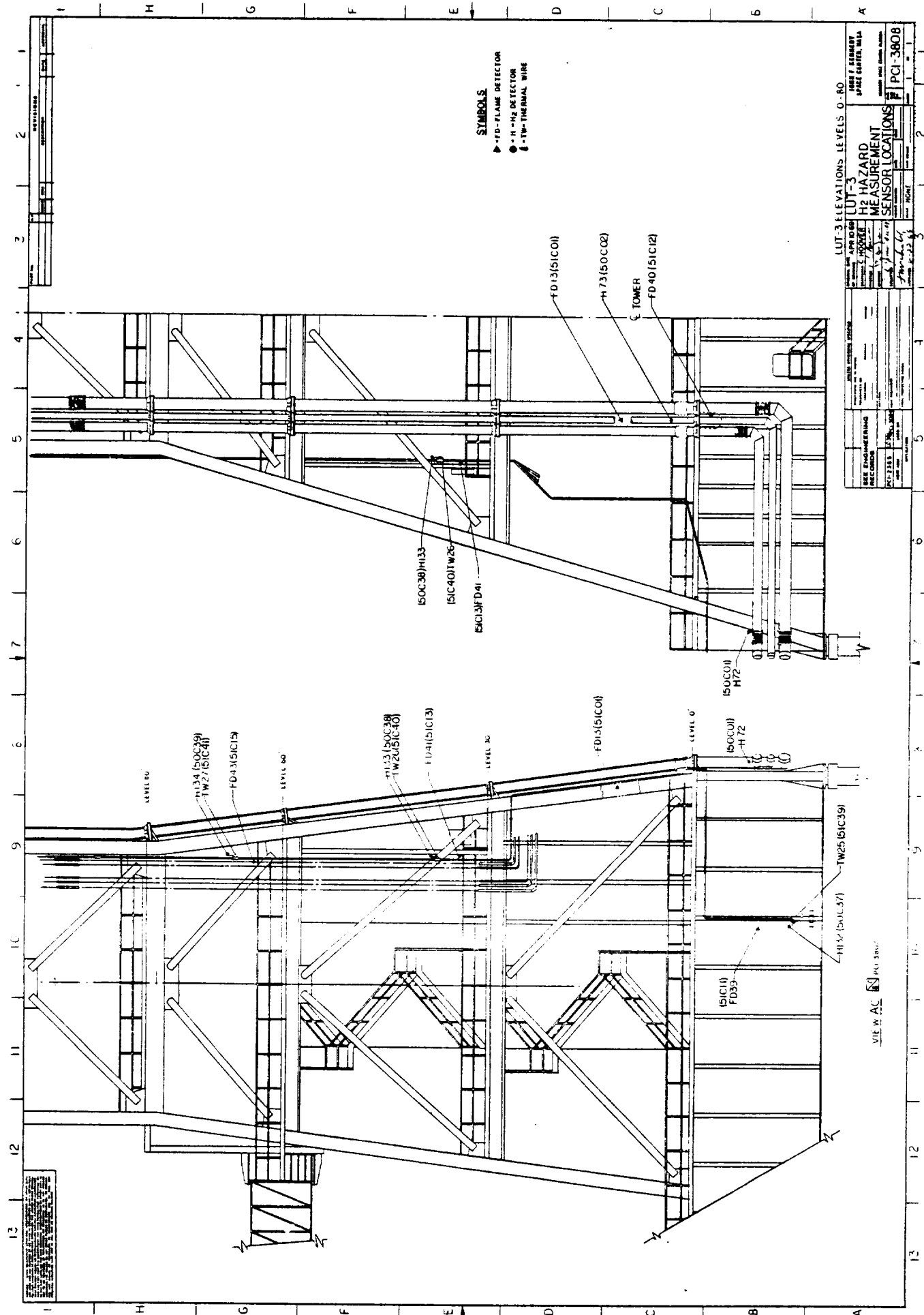
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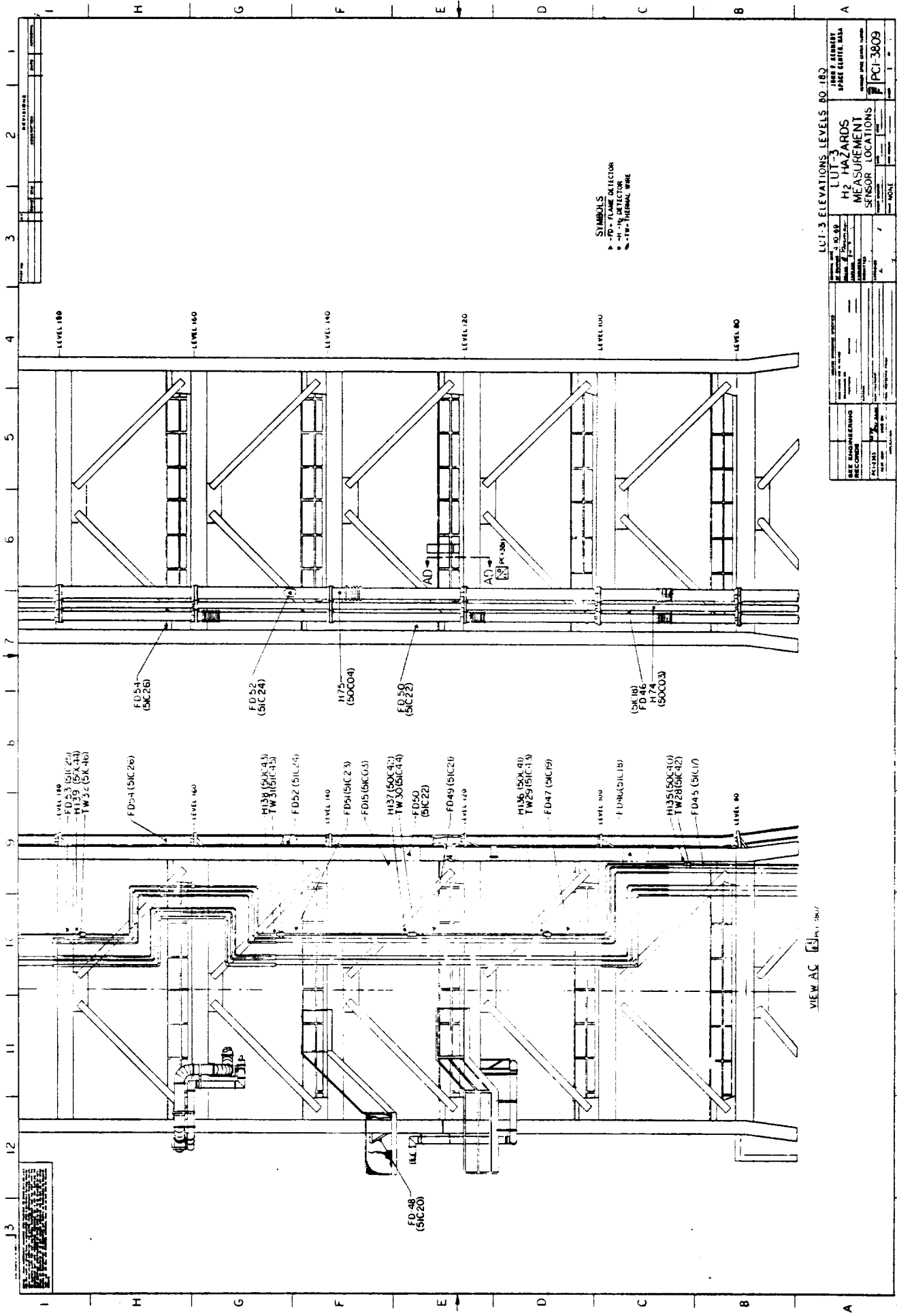
VIEW AC

PC13809

PC13809

PC13809





LUT-3 ELEVATIONS LEVELS 80-180

LUT-3

H2 HAZARDS

MEASUREMENT

SENSOR LOCATIONS

NO.	DESCRIPTION	LOCATION	DATE	BY
1	FD54 (SIC26)	LEVEL 180		
2	FD52 (SIC24)	LEVEL 160		
3	H75 (SIC04)	LEVEL 140		
4	FD59 (SIC23)	LEVEL 120		
5	FD46 (SIC18)	LEVEL 100		
6	H74 (SIC03)	LEVEL 80		
7	FD54 (SIC26)	LEVEL 180		
8	FD52 (SIC24)	LEVEL 160		
9	H138 (SIC43)	LEVEL 140		
10	TW32 (SIC46)	LEVEL 120		
11	FD54 (SIC26)	LEVEL 100		
12	FD52 (SIC24)	LEVEL 80		
13	H137 (SIC43)	LEVEL 180		
14	TW30 (SIC44)	LEVEL 160		
15	FD50 (SIC22)	LEVEL 140		
16	FD49 (SIC21)	LEVEL 120		
17	H136 (SIC41)	LEVEL 100		
18	TW29 (SIC45)	LEVEL 80		
19	FD47 (SIC19)	LEVEL 180		
20	H135 (SIC40)	LEVEL 160		
21	TW28 (SIC42)	LEVEL 140		
22	FD45 (SIC17)	LEVEL 120		
23	FD48 (SIC20)	LEVEL 100		

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION		

PROJECT INFORMATION

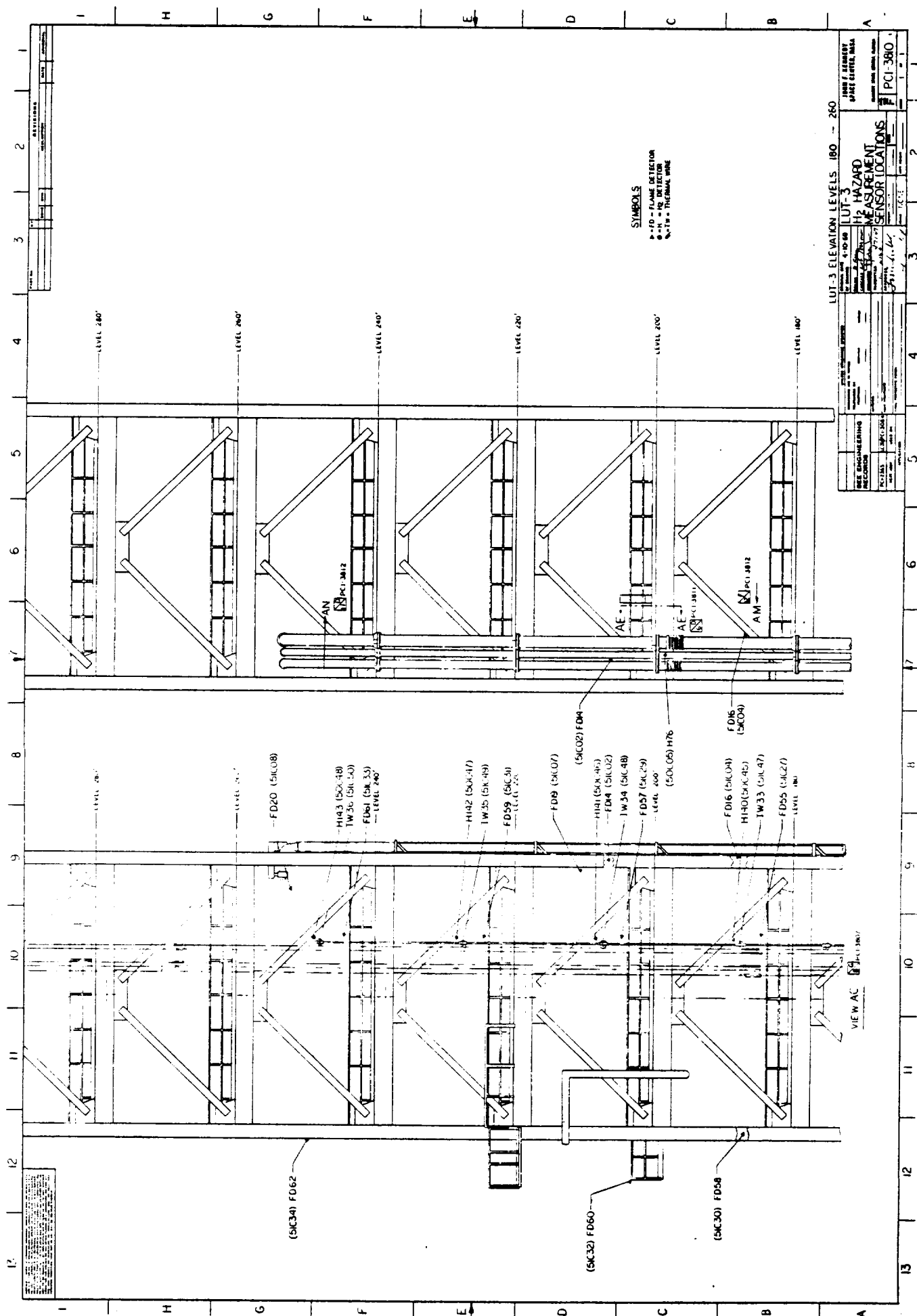
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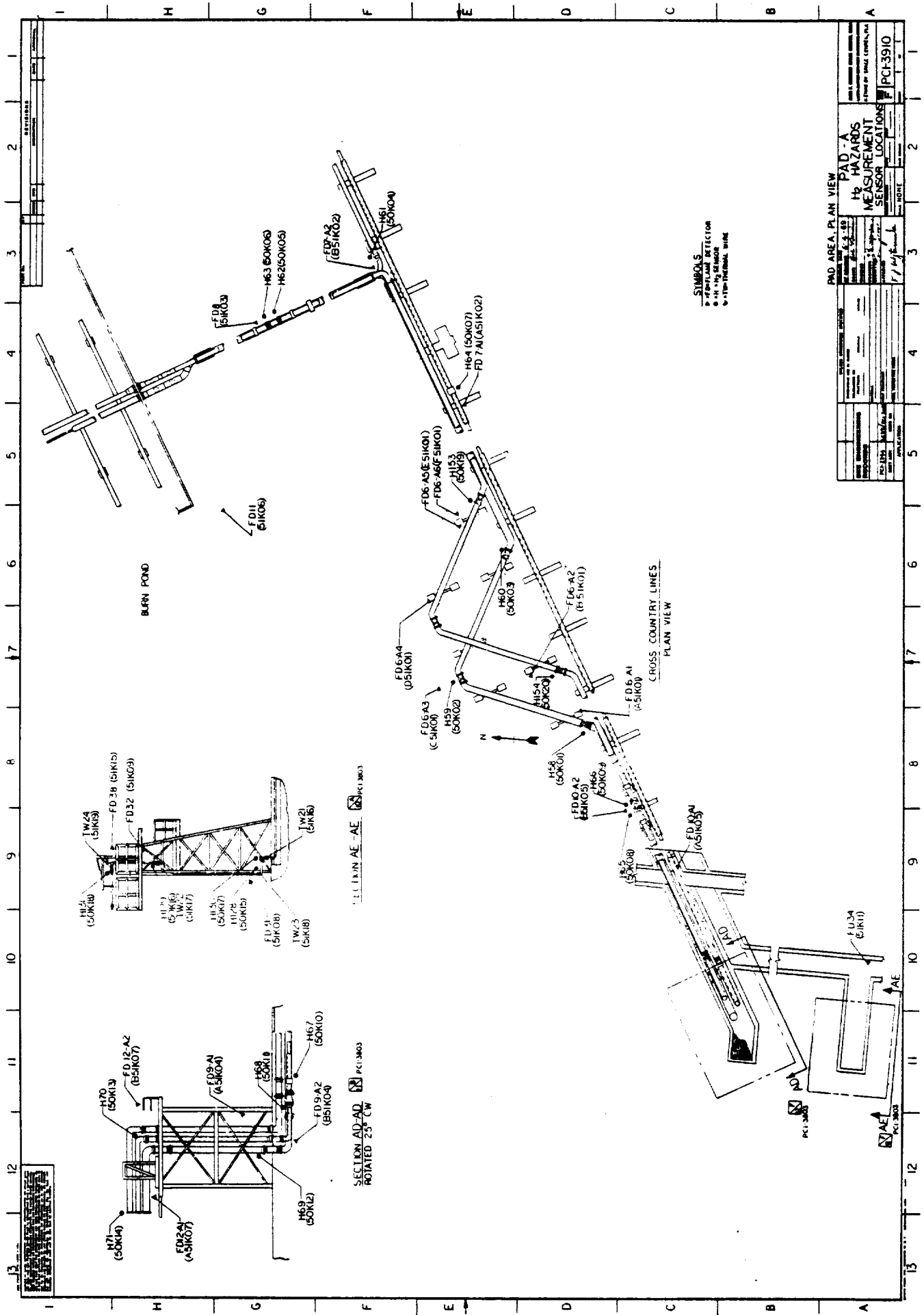
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BY [Signature]

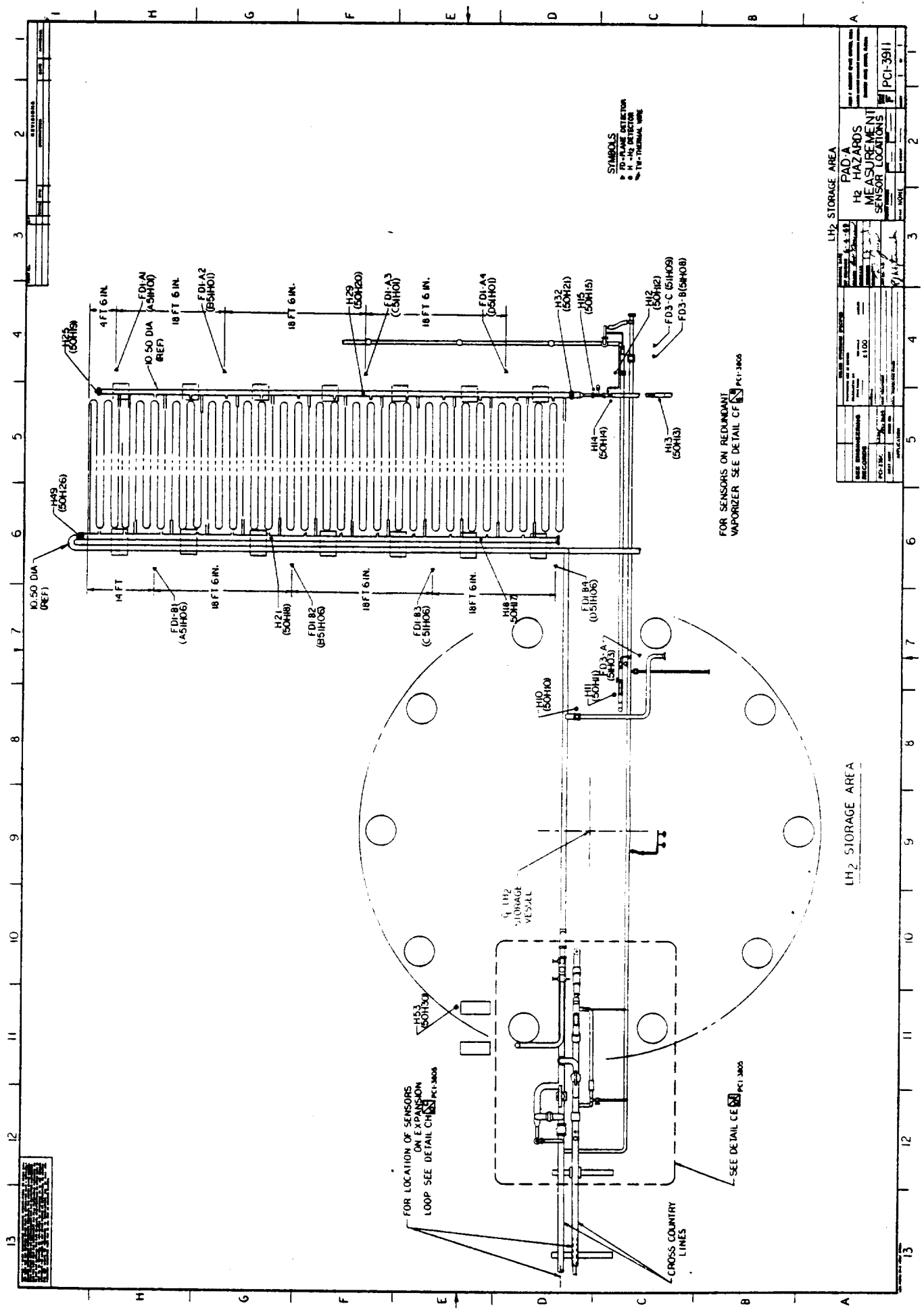
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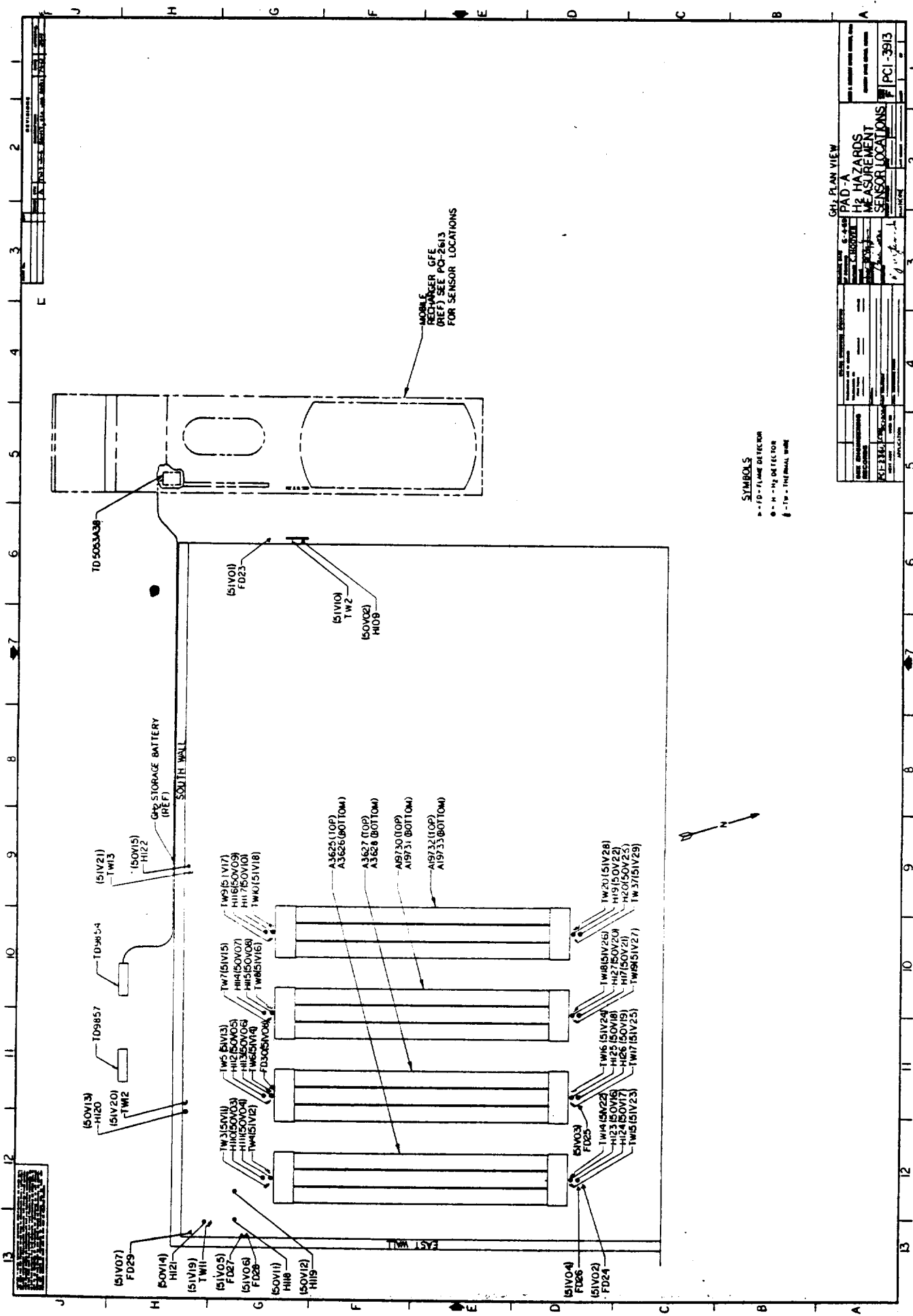
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PAD AREA PLAN VIEW	
DATE	11/1/78
BY	PC-3910
FOR	PC-3910
SCALE	1" = 100'
PROJECT	PC-3910
REVISION	
NO.	1
DESCRIPTION	H ₂ HAZARDS MEASUREMENT SENSOR LOCATIONS
DATE	11/1/78
BY	PC-3910
FOR	PC-3910
SCALE	1" = 100'
PROJECT	PC-3910
REVISION	
NO.	1
DESCRIPTION	H ₂ HAZARDS MEASUREMENT SENSOR LOCATIONS

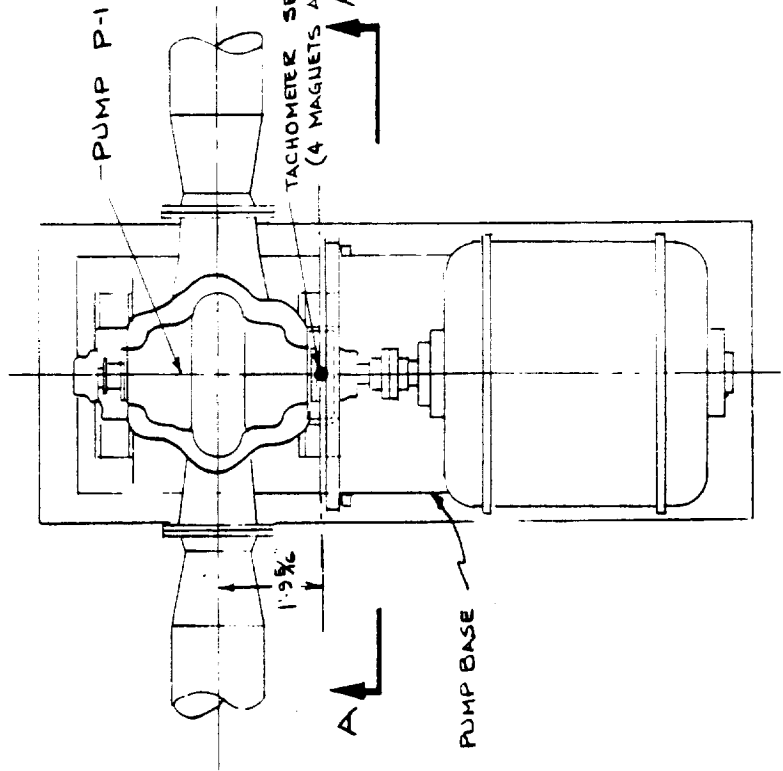




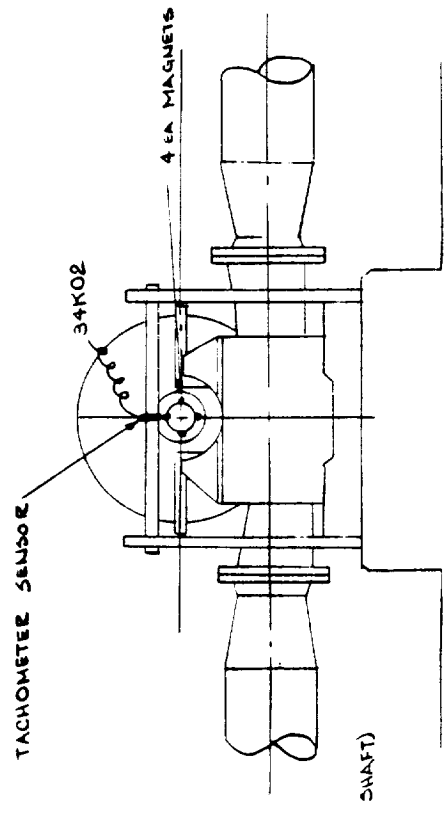
SYMBOLS
 S - FD - FLAME DETECTOR
 H - H₂ DETECTOR
 T - TW - THE SMALL WIRE

GH-PLAN VIEW	
PAD-A	HAZARDOUS MEASUREMENT SENSOR LOCATIONS
PCI-3913	

← Z →



PLAN
1/2" = 1'-0"



SECTION A-A
1/2" = 1'-0"

SYM.	ZONE	DESCRIPTION	DATE	APPROVED																		
<table border="1"> <tr> <th colspan="2">SIGNATURES</th> <th>DATE</th> </tr> <tr> <td colspan="2">DRAWN: [Signature]</td> <td>7/30/62</td> </tr> <tr> <td colspan="2">CHECKED: [Signature]</td> <td>7/30/62</td> </tr> <tr> <td colspan="2">ENGINEER: [Signature]</td> <td>7/30/62</td> </tr> <tr> <td colspan="2">SUBMITTED: [Signature]</td> <td>7/30/62</td> </tr> <tr> <td colspan="2">APPROVED: [Signature]</td> <td>7/30/62</td> </tr> </table>					SIGNATURES		DATE	DRAWN: [Signature]		7/30/62	CHECKED: [Signature]		7/30/62	ENGINEER: [Signature]		7/30/62	SUBMITTED: [Signature]		7/30/62	APPROVED: [Signature]		7/30/62
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ENGINEER: [Signature]		7/30/62																				
SUBMITTED: [Signature]		7/30/62																				
APPROVED: [Signature]		7/30/62																				
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, FLA. KENNEDY SPACE CENTER, FLORIDA																						
MEASUREMENT LOCATION																						
INDUSTRIAL WATER PUMP P-1																						
PAD - A																						
SIZE: 8		DRAWING NO.: PCI-4004		SHEET 1 OF 1																		
PROJ. NO.																						

PCI-2366 1039/PCI-3004
 NEXT ASSY USED ON
 APPLICATION

DISTRICTION LIST

ORGANIZATION	COPIES	ORGANIZATION	COPIES	ORGANIZATION	COPIES	ORGANIZATION	COPIES
IN	1	LV-64L-1	1	APPROPRIATE PROVING AND	1	MSFC, ALABAMA	1
IN-DAT	1			ATTN: MR W TOWNSEND		S & E-CSE-LA	
IN-DAT-1	6	SP	1	BRL-TPL		MSFC, ALABAMA	1
IN-DAT-4	1	SO-ELUC-4	2	MARYLAND 21005		S & E-AERO-Y	
IN-DAT-51	5	TS-RTS-2	1	NOAA/NOS, RM C233	1	MSFC, ALABAMA	1
IN-MSD	2	TS-TSP-B	1	6001 EXECUTIVE BLVD,		S & E-COMP-WRP	
IN-MSD-1	6			ATTN: MR W WICKLEY			
IN-MSD-2	4			ROCKVILLE, MD 20852			
IN-MSD-3	15	DATA EVALUATION ROOM	5				
IN-MSD-3	2	MSOB, ROOM 2296/2299					
IN-TEC	2						
IN-TEL	2	TSC, VAR, PM211	30	A.W. MUELLER MS 239 1		MSFC, ALABAMA	1
IN-TEL-12	12	MR. E E ZYZAK		LARC NASA		PM-MO-1	
IN-TEL-2	10	MDAC, VAR RM 2K17	15	LANGLEY STATION		MSFC, ALABAMA	1
IN-TEL-3	1	MR. R H PIERRETON		HAMPTON, VA, 23365		PM-SAT-E	
DO-EDU-22	1						
DO-EDU-23	2	IBM, VAR RM 1M7	1	MSFC, ALABAMA	1	MICHOU ASSEMBLY FAC 1	
DO-KUD-21	1	MR. LAYIN		S & E-COMP-RRW		MICHOU, LA.	
DO-MCD-3	1					PM-MICH	
DF-RHO-3	1	IBM, SPACE DIV	25	MSFC, ALABAMA	1	MDAC	
UD-SFD-3	1	VAR, RM 3A19		S & E-ASTR-SCI		P O BOX 1106	
DD-SEC-31	1			MSFC, ALABAMA	1	HUNTSVILLE ALA 35807	
		FCC, CIF RM 310	10	S & E-ASTR-ADD		LARRY RICHARDS	
		MR. RICHARD DELL					
NMSI-D	3			MSFC, ALABAMA	1		
LO-RHO-1	1	FEC-230	1	S & E-ASTR-TMO		IBM	
		J. D. EVERETT				P O BOX 1250	
LV	1			MSFC, ALABAMA	2	150 SPARKMAN DRIVE	
LV-CAP	2	GE, EAL BLDG.		S & E-CSE-LA		HUNTSVILLE ALA 35807	
LV-GUC	2	ROOM 1239	2	A. M. JUPITER		DEPARTMENT M12	
LV-GUC-2	1	MR. V. P. ROYD					
LV-GUC-3	1			MSFC, ALABAMA	1	NAR	
LV-INS	1	IBM, TECH LIB, F50-2	5	S & E-AERO-MS		SPACE DIVISION	
LV-INS-2	3	6000 ASTRO. BLVD		J. P. SHEATS		3322 SOUTH MEMORIAL	
LV-MEC	1	CAPE CAHAVERAL, FLA.				PARKWAY SUITE 142	
LV-MEC-1	3	32920		MSFC, ALABAMA	6	HUNTSVILLE ALA 35801	
LV-MEC-2	1			PM-MO-PL		MR GARCIA	
LV-MEC-3	6	MSFC, HOUSTON, TEXAS	1				
LV-PLI-12	2	PT3, DATA LIBRARY					

RETURN: EXTRA COPIES TO: CA, INFORMATION CONTROL SECTION, HQ-DAT-52 (867-4372)

